U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-281 225

Model State Information System Training Program. Volume III. Participant's Handbook for Data Entry

Cincinnati Univ, Ohio Southwestern Ohio Regional Computer Ctr

Prepared for

Environmental Protection Agency, Washington, D C

Jun 77

PB 281 225

Model State Information System
Training Program

Volume III

Participant's Handbook

For

DATA ENTRY

Prepared for the

U.S. Environmental Protection Agency
Office of Water Supply
Washington, D.C. 20460
under GSA Contract No. GS-05S-10458
Task Assignment OWS-77-01

by the

SouthWestern Ohio Regional Computer Center
Cincinnati, Ohio
June, 1977

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

BIBLIOGRAPHIC DATA SHEET	1. Report No. EPA 440/6-77-028-8	2.	3. Recipient's Accession No. PB281225

4. Title and Subtitle MSIS Volume III: Data Entry Participant's Handbook	5. Report Date June 1977
	6.
7. Author(s) Southwestern Ohio Regional Computer Center	8. Performing Organization Rept. No.
9. Performing Organization Name and Address Southwestern Ohio Regional Computer Center 3333 Vine Street Cincinnati, OH 45220	10. Project/Task/Work Unit No. OWS-77-01
	11. Contract/Grant No. GSA Contract # GS-055-10458
12. Sponsoring Organization Name and Address U. S. Environmental Protection Agency Office of Drinking Water 401 M Street S.W. Washington, D.C. 20460	13. Type of Report & Period Covered
	14.

15. Supplementary Notes

16. Abstracts

This handbook is designed to present all materials needed for persons participating in the Model State Information System (MSIS) Data Entry Training Program.

This participant's handbook is designed to be used in two ways: First, during the actual training as a classroom aide, and Second, as a reference tool when on the job.

17. Key Words and Document Analysis. 17a. Descriptors

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
RELEASE UNLIMITED	UNCLASSIFIED	228
	20. Security Class (This Page) UNCLASSIFIED	22. Price A11-A01

ACKNOWLEDGEMENTS

No major effort may conclude without proper acknowledgement of help received. During the seven months required for gestation and birth of the six MSIS training programs, several individuals rendered indispensable help. Joseph Bagby of the University of Cincinnati's Faculty Resource Center, and Thomas Bartlett and Daun Richards of SWORCC bore the major burdens of creativity and revision. They were aided especially by Janis Cowperthwaite and Thomas Manz of SWORCC, who reviewed content for technical accuracy. Office of Water Supply personnel suffered many questions, especially Arnold Kuzmack, Fredrick T. Martin, and Peter Bengtson. Finally, SWORCC's Systems Division Director, John W. Rust, provided urgently needed clerical and moral support. We all thank them all. To those whom we have inadvertently overlooked, our apologies and our thanks.

Ellen G. Miller
Project Manager, OWS-77-01

TABLE OF CONTENTS
Vol. III MSIS Data Entry

	Page
Acknowledgements	ii
Table of Contents	iii
Introduction	1
Purpose of Course	2
Summary of Course Content	4
Pre-Test	28
Slide Reproductions	30
Exercises	85
Post-Test	102
Glossary	104
Acronyms (abbreviations)	110
Extracts From MSIS Documents	112

INTRODUCTION

This handbook is designed to present all materials needed for persons participating in the Model State Information System (MSIS) Training Program. The MSIS Training Program consists of six instructional courses:

VOLUME I- MSIS OVERVIEW
VOLUME II- MSIS SUBSYSTEMS
VOLUME III- DATA ENTRY
VOLUME IV- SELECTION PROCESS
VOLUME V- MSIS COMPONENTS
VOLUME VI- SYSTEM SPECIFICATIONS

Volumes I - IV were created primarily for State Water Division personnel while Volumes V and VI focus on State ADP personnel.

This participant's handbook is designed to be used in two ways: first, during the actual training as a classroom aide, and second, as a reference tool when on the job. Since a considerable amount of detail is provided and the looseleaf format facilitates additional material and updates, conscientious use of this handbook can result in greater understanding of the entire MSIS system.

PURPOSE OF COURSE

PURPOSE

The purpose of this course is to attain two types of trainee goals: content and non-content. The content goals are knowledge acquisition and skill attainment. The non-content goal is attitude. The four specific goals for this course are:

Knowledge

Trainees will know the four categories of MSIS input forms.

Trainees will be able to correlate input forms with subsequent results.

Skill

Trainees will be able to fill out representative input forms correctly.

Attitude

Trainees will be confident in their basic knowledge of the MSIS input forms and in their ability to manage it effectively.

SUMMARY OF COURSE CONTENT

Following are the units that comprise this course together with the goals, behavioral objectives, time allocation, and instructional techniques for each unit:

Unit 1: Operational Input Forms

Goal: To provide the trainee with the knowledge and ability to complete the two types of input forms required to operate the MSIS.

Behavioral Objectives:

1. Identify each of the processing option input forms.
2. Match each given function with the appropriate processing option input forms.
3. Specify the purpose of each field on the table creation

input forms.

4. Choose the best valid entry for each field on the table creation input forms.
5. Predict how frequently each of the table creation input forms will be used.
6. Fill in the correct entries for two processing option input forms.
7. Fill in the correct entries for table creation input forms.

Unit 2: Informational Input Forms

Goal: To provide the trainee with the knowledge and ability to complete the two types of input forms used to enter and maintain information in MSIS.

Behavioral Objectives:

1. Identify the four record creation and maintenance forms.
2. List the three basic sections of all record creation and maintenance forms.
3. Fill in the correct entries for record creation and maintenance forms.
4. Identify the five water quality transactions input forms.
5. List the purpose of each of the two types of water quality transactions input forms.
6. Fill in the correct entries for the water quality transactions input forms.

Unit 3: Input Results

Goal: To strengthen the trainee's understanding of both correct and incorrect entries on input forms by illustrating the results of both, and to give trainees additional information as to why particular entries are correct

Behavioral Objectives:

1. Identify the results of specified inputs.
2. Compare input forms with the corresponding results.
3. Explain the desired results and actual results.
4. Identify errors on input forms.
5. Correct errors on input forms.

Unit 4: Optional Material

(To be inserted as required.)

SUMMARY OF COURSE CONTENT

Input Forms

Units 1 and 2 deal with the MSIS input forms. Input forms are a means of communicating with the computer, and are filled out by State water division personnel.

MSIS has over 70 input forms, which can be categorized into two types: operational and informational. The nearly 25 operational input forms, taught in this unit, are those which permit the user to specify how data on PWS's, samples, and analyses is to be processed. The almost 50 informational input forms, taught in Unit 2, permit the user to input data about PWSs, samples, and analyses.

There are two types of operational input forms, processing options and table creations.

The agenda for this training unit is:

1. processing option input forms,
2. table creation input forms, and
3. a workshop.

1. Processing option input forms are used to instruct the computer about the contents of desired reports; they are used frequently.

2. Table creation input forms permit setting up values against which incoming data may be compared; they are used mainly when installing MSIS because while many tables are supplied, others must be created by the State.

3. The workshop portion of this unit will give all trainees a chance to fill out these two types of MSIS input forms, discuss the forms, and answer questions.

Summary of MSIS.

The Model State Information System (MSIS) is a batch computer system which maintains records on public water systems and the quality of water they supply. It also performs the function of reporting required information to the federal government as required. MSIS is divided into nine parts called subsystems:

Regulations (REGS)

Public Water System Inventory (PWSI)

Water Quality Compliance (WAQC)

Federal Reporting (FEDR)

MSIS Standard Processing (MSIS)

Variances and Exemptions (VAEX)

Enforcement Actions (ENAC)

Sanitary Survey (SRVY)

Operator and Mailing (OPER)

Required MSIS Data Elements.

The following list of data elements must be filled out if a record is to be accepted by the MSIS programs. The list is given here although it will be referred to later during this course as appropriate.

1. Public Water System

For each Public Water System:

* ID (Identification)
* Plant type -- community
  non-community
* Population served
* Water source code -- ground
  surface
  purchased
  -- At least one water source must be identified for each public water system.

2. <u>Water Quality Compliance</u>

For each sample:

* Public Water System ID (Identification)
* Contaminant ID
* Sample types -- regular
  check
  raw, etc.
* Sample date or date of last sample
* Sample analysis method (except for turbidity)
* Lab ID

Additional data elements on individual sample forms:

* Sample time (for bacteria and turbidity)
* Analysis result
* Analysis date
* Sample location (to associate check samples with regular samples)

Additional data elements on summary sample forms:

* Mean analysis result
* Actual number of samples taken
* Sample period - start date
  end date
* Flag if check samples taken - federal
  state

For the Lab table:

* Lab ID
* Owner type
* Contaminant group
* Analysis method

For violations:

* Public water system ID
* Regulation level - federal
  state
* Violation type
* Violation date
* Violation ID

3. Variance and Exemption

For each variance or exemption:

* Variance and exemption ID
* Type - variance
  exemption

4. Enforcement Actions

For each enforcement action:

* Enforcement actions ID

5. Federal Reporting

None

6. Operator and Mailing

For each operator or mailing addressee:

* ID (Identification)
* Type - operator
  other categories
* Name
* Street
* City
* State
* Zip

7. Sanitary Survey

None

8. Regulations

* Federal regulations

9. Standard Processing

* Acceptable values for editing in all five tables

Definitions

While it is correct to state that MSIS has over 70 input forms that may be used, there are only 26 different ones since many of the 70 vary only in the name of the file that they access. Thus, there are only four different processing option input forms, which are taught here, although they exist in about 25 variations.

General Characteristics

There are several similar characteristics of the MSIS input forms.

1. MSIS and the name of the subsystem for which they can be used are in large letters at the top of the form.
2. There usually is a form number in the upper right corner, such as PWSI.110.
3. They consist of boxes to be filled out, with numbers that correspond to the keypunch column.
4. Some of the boxes have pre-printed information in them, especially for Card ID, Card Code, and Transaction Code. We are not concerned with this pre-printed information since the computer programs know how to interpret it correctly.
5. They have some written explanations besides the boxes, to help in filling out the form.
6. The boxes are to be filled with numbers, alphabetics, or left blank.
7. A group of boxes makes up a data element, or data field.
8. All the data elements on the input form make up a record.
9. It may take more than one 80-column keypunch card to represent the entire record.

The four processing option input forms are covered in great detail in Volume IV, Selection Process.

Purpose

The purpose of the processing option input forms (hereafter called Proc-Options) is to permit the user to specify to the MSIS the type of output needed.

PROC

The first ProcOption form is PROC.

The PROC is used to initiate a program or series of programs and for that reason will be used frequently. The common entry on this form is the date. The date represents the date that will be printed on the report. This will usually be the current date. Other options which might be provided for on this form are the dates that the report will cover, whether a special file or report should be created or not, whether to print a complete or condensed report, or no report at all. The "Processing Option for Job" blank at the top is for use by data processing personnel. There is at least one PROC form for each subsystem and about 25 total.

See PROC example, REGS.100.

SORT

The second ProcOption form is SORT, which permits the user to specify the sequence of an output report. There are six forms; one example, WAQC.113, is taught in this course. On WAQC.113 we see that:

1. Positions 1-4 are pre-printed.
2. Positions 5-6, 18-19, 31-32, 44-45, and 57-58 permit entering the sequence of the data elements to be sorted.
3. Positions 7-16 and the other sets of boxes under them are for the mnemonic name of the data element to be sorted; see the Data Element Dictionary for correct mnemonic name.
4. Sort mode may be specified for numeric data elements; ascending is from small numbers to large numbers. For alphabetical data elements, ascending is from A up through Z. In order to get a normal alphabetical report of names, we would specify an ascending mode for the last name and an ascending mode for first names. If any two last names were the same, then the SORT would continue on with the first name and sort alphabetically.

Example WAQC.113 shows that the user wants to sort five data elements, plant type, plant cycle, plant standard capacity, plant maximum production, and plant ID number. The user wants the output report to be organized in this fashion:

I. Plant type -- (community PWS or non-community PWS)

  A. Plant cycle (date within the month upon which compliance cycle begins)

    1. Storage capacity

      a. Maximum production

        1) PWS ID no.

Selection Process

The SEL1 and SEL2 processing option input forms are always used together. Together they allow the user to specify the selection criteria for records to be printed on a report. These forms are used frequently. There are six SEL1 and SEL2 forms; one each is taught here.

SEL1

The SEL1 input form represents thirteen column card entries. Each line is one card. The position numbers under the first line apply to all lines. The "DUP 1-4" on the left is an instruction to the transcriber to duplicate positions 1-4 above on each card or line. "DUP" is used whenever the same information is to be transcribed on several cards.

Look at the example, MSIS.106.

1. Positions 1-4 are pre-printed.
2. Positions 5-14 are filled out with the mnemonic name denoting Region within the State.
3. Positions 15-29 give the value desired for Region, i.e., Region 2 is desired.
4. In positions 30-31, the sequence number is given; it is number one since Region is the first (and only) data element listed.

SEL2

As stated before, SEL1 and SEL2 are always used together. Thus, we see that in Example MSIS.107:

1. positions 1-4 are pre-printed, and
2. The desired logical relationship between the data element and comparative value on SEL1 is equality. We want to select only the records that are from Region 2 for our report. So, we enter "EQ".

There are no more fields to fill out on MSIS.107 since we used only one field on SEL1.

Comments

A user can use up to 13 data element mnemonic names on SEL1 so long as he wants an AND condition. Whenever an OR condition is desired, another SEL1 form must be used.

The SEL1 and SEL2 input forms are always used together for each of the subsystems which allow selection of records for output. Only REGS and FEDR do not permit selection because their files are always output in their entirety.

Definitions

The second half of the MSIS operational input forms is called table creation input forms.

Tables are files of information for the computer's internal use. The five MSIS tables below have input forms.

1. Error Message Table (EMT)
2. Data Element Table (DET)
3. Code Value Table (CVT)
4. Laboratory Table (LBT)
5. Regulations File (RGF)

Tables generally only have to be established once; therefore, these input forms will seldom be used after MSIS is installed.

Purpose

The purpose of the table creation input forms (hereafter called the Table Creates) is to enter data elements and their values into the MSIS internal tables. All five Table Creates are taught here.

The first three tables--error message, data element, and code value, are found in the MSIS subsystem; the laboratory table is part of WAQC; and the regulations file (really a table, as explained in Vol. II), is in the REGS subsystem.

EMT Input Form

The Error Message Table input form is used to add new kinds of standard error codes and their messages to the Error Message Table. The Error Message Table prepared by SWORCC has three kinds of error messages--Warning, Invalid, and Reject. One of these terms is used as the first entry for every standard error message that has been established; each has its own meaning. A Warning error message signifies that the computer programs will accept the input but the data's value is not within reasonable bounds that have been pre-established. It is used to call attention to unlikely input. An Invalid error message signifies that a particular data element within a record is incorrect and was not accepted; however, the rest of the information that was input was accepted. It is used to flag incorrect non-essential data. A Reject error message signifies that a whole record of information was rejected due to a single error.

Standard errors signify problems in a record but the computer run was completed; they begin with one of the three key words--Warning, Invalid, or Reject--and can occur on any MSIS input form EXCEPT processing options. In distinction, processing option input form errors result in an aborted computer run; no processing occurred. The EMT contains only standard error messages.

See example MSIS.102.

1. Note that in line one, the first two fields, card ID and file ID, are pre-printed indicating that the information entered cannot change. This makes sense since there is only one EMT. We also note that two lines of data entry information occupy positions one through 65 and then repeat with the next two lines. The keypunch operator would therefore enter the first 65 positions on one card and then start a new card, "dupeing" the first three positions as instructed by the form.
2. The error code always begins with a zero followed by a two-digit number.
3. The meaning of the code is shown in the error message fields.
4. If the word "Invalid" appears, it indicates that the data element involved with the error was not accepted but that all other record input was accepted. Invalid's start with 4--.
5. If the error message is preceded by the word "Reject", it indicates that the computer rejected the entire record of information that was being input. Reject's start with 0--.
6. If the word "Warning" precedes the message it means the computer has accepted the data but does not feel the data is within acceptable bounds. Warning error messages, therefore, warn of invalid input. Warning's begin with 1--.

Remember that the EMT was supplied by SWORCC; a State would fill out this form infrequently, only to add new error message codes and messages. This form allows for two error codes to be input per 80 column card.

Any error code that is used in more than one subsystem need only be input once.

DET Input Form

The Data Element Table has already been prepared by SWORCC, but the data element table input form is provided for input when the programs are changed and new data elements are provided for in the program. It will be used infrequently.

See example MSIS.104.

1. This form allows for one data element entry per card as indicated by the "dupe" instructions to the keypunch operator on field one of line two through eleven.

2. Field two, the file ID, identifies the file which uses the data element code value during processing. Since a file ID is assigned, we know that a separate entry must be made to enter the information on each file using the information. Note that here the information is not pre-printed since more than one file in the Standard Processing Subsystem uses the information. File ID is found in the Data Entry Instructions.

3. Data element catalog number represents a unique three-digit number which has been added to the Data Element Dictionary.

4. The following four fields describe for the computer the new data element as it comes from the keypunch card, and where it needs to appear on the file identified.

   -Positions 7-8 and 9-12 identify the starting position of the data element on the keypunch card, with the corresponding starting position on the computer file.

   -Positions 13-14, data element length, tells the number of positions used on the record layout for this file, and is obtained from the appropriate record.

   -Positions 15-16 tell the computer the number of card columns used on the keypunch card.

5. The new data element mnemonic name is created by the State and has been added to the Data Element Dictionary.

6. The last field gives the user an option as to whether or not changes to this data element will be kept on the appropriate history file.

CVT Input Form

The Code Value Table input form is used to enter the acceptable value or values of 27 possible data elements and their corresponding descriptions in the Code Value Table. (See Part IV for list of CVT data elements). This table, too has already been partly established, but certain of the codes must be established by the State. See example MSIS.103.

1. Only the card ID is pre-punched. One line is used for one keypunch card.

2. The second field is the file ID. A particular file using the data element is entered here. If more than one file is concerned, a separate and complete entry must be made for each.

3. Field three is again the catalog number and again, it is obtained from the Data Element Dictionary.

4. Field four, positions 7-15, contains one acceptable value for the data element. This field must be filled out for every single acceptable value for this data element. For example, a State using a county code must input each county code on Code Value Table input forms. As you can see, this form is used hundreds of times when setting up the State's own code values. Values must be left-justified.

5. Field five refers to the entry in field three, and represents the number of positions which the data element occupies. As an example, if the code is 3000, this field would contain a 4.

6. This last field explains the valid code for the data element.

LBT Input Form

The Laboratory Table input form allows the State to enter those laboratories it has certified together with the expiration date of such certification, the analyses the laboratory is certified to perform, and the analysis techniques it may use.

See examples WAQC.101 and WAQC.102.

This form represents one punched card. It has one pre-printed field--card code L1 in the last two keypunch positions--79 and 80. The Laboratory Table input form has two pages.

1. Page one shows that when the State certifies a lab to analyze water samples, it assigns the lab an ID number.

2. Position six is pre-printed.

3. Position 7 is the owner type. Acceptable values were determined by the State, and described in the CVT.

4. The lab name is entered in field four, line one, left-justified, and the certification expiration date on line two.

5. On the second page, the first field repeats the laboratory ID, obviously, to insure that the information on page 2 is entered for the appropriate laboratory.

6. Field two allows us to enter a contaminant group code. These are described directly below these two fields in the key.

7. The remainder of this form allows the listing of up to 24 various analysis methods for which the lab is certified.

MSIS required data elements for the Lab Table are:

* Lab ID
* Owner type
* Contaminant group
* Analysis method

REGS Input Forms

The Regulations File data for the federal regulations on water quality is provided complete by SWORCC with the rest of the MSIS computer system. The Regulations File input forms are provided so that the States may enter their own regulations, which are at least as stringent as the federal ones. While there are a total of eight Regulations File input forms, five specify the maximum contaminant level and the required sampling frequency for each contaminant. The remaining three Regulations File input forms are special purpose forms.

--Turbidity Contaminant Input Form

The turbidity contaminant input form will be studied in detail as an example of the five REGS input forms which specify maximum contaminant level.

See REGS.102 example.

1. Notice that in line one, both the card ID and contaminant name are preprinted, indicating that this form is used for only the turbidity contaminant. Also, only one keypunch card is required.

2. The second field, positions 5-6, permits the user to differentiate between federal and State regulations and between primary and secondary regulations. The first block of the two-block field is for the regulation entry and the second block is for the level entry. As an example, a federal secondary regulation would be entered as "FS" and a State primary regulation as "SP". If more than one condition exists, a separate input must be made for each condition. MSIS accepts only "FP" records.

3. Positions 16-17 and 18-19 deal with the maximum contaminant level for the computational technique used. Two fields were provided since the MCL established varies with the technique used. As indicated, the first field of line 2 is for the monthly average computation, while the second field is for the consecutive sampling computation.

4. The third field specifies the number of consecutive samples required for a valid entry in field two.

5. Positions 22-27 make provision for an effective date of the regulation for the turbidity contaminant. This date is specified in the federal regulations as June 24, 1977.

6. Position 28 allows the State to indicate a simple choice of "yes" or "no" as to whether the turbidity monitoring requirements will apply to all water sources. This provision is necessary since the federal regulations require the monitoring of the turbidity contaminant in only those public water systems whose source of water in whole or in part is surface water; that is, rivers, lakes, and so forth.

7. Position 29 again is a simple "yes"-"no" choice by the State. MSIS provides the option as to whether to include the repeat samples in the average.

8. Positions 30-32 and 33-35 allow the user to indicate the required frequency of monitoring for community and non-community PWS's in days per year. In the case of a community PWS, the federal regulations require a daily monitoring. The regulations will be applicable to non-community PWS's on June 24, 1979.

9. The last field, positions 36-37, controls the number of minutes that may lapse before the PWS must initiate check sampling as a result of an MCL violation. The example indicates 60 minutes.

--Chemical Contaminant Input Form

This form will be used for the ten organic and six inorganic chemical contaminants.

--Bacteriological Contaminant Input Form

Since there is only one bacteriological contaminant, the card ID and contaminant name can be pre-printed. You will find the ID on line one, field one, and the name, "COLIFORM", on line one, field three.

--Gross Alpha Radionuclide Contaminant Input Form

This input form also applies to a single contaminant whose card ID is pre-printed on line one, field one, and name on line one, field three.

--Gross Beta Radionuclide Contaminant Input Form

Our last Regulations File input form is for the gross beta radionuclide contaminant.

Of the eight Regulations File input forms mentioned earlier, there remain the three special purpose input forms.

Population Table for Bacti Sampling

The Population Table for bacteriological sampling input form establishes the minimum samples per month for PWS's falling within a range established by the upper and lower popul tion limit. Examine example REGS.103.

1. Field one is the pre-printed card ID, field two the regulation type (federal or State) and level (primary or secondary). The "FP" entry here is for federal, primary regulation. Field three is the card ID.
2. Positions 8-16 establish the lower limit of the range.
3. Positions 17-25 establish the upper limit of the range.
4. Positions 26-28 establish the samples per month for PWS's falling within the population range established. Here it is 35 samples per month for PWS's with populations of 28,001 to 33,000.

Fluoride MCL Table Input Form

As you see, this form also establishes additional criteria for a contaminant. Here the contaminant is fluoride, not bacteria; the range is temperature, not population; and the restriction is on MCL, not on samples per month.

Major Beta Emitter Table Input Form

The Major Beta Emitter Table input form simply specifies particular beta emitters which must be monitored for within the gross beta radionuclide category.

Required MSIS data elements on table creation input forms

The entire list of required MSIS data elements was given at the beginning of this unit. Now that all table creation input forms have been covered, we can relate those forms to the required MSIS data elements.

Error Message Table	-- None
Data Element Table	-- None
Code Value Table	-- 27 data elements (see Part IV, required code values)
Laboratory Table	-- Lab ID, owner type, contaminant group, analysis method
REGS File	-- Federal regulations (supplied by SWORCC)

Agenda

The agenda for this unit is different from Unit 1 in that there are two workshops which follow immediately after each of the two categories of informational input forms. The agenda is:

1. Record creation and maintenance input forms
2. Workshop
3. Water quality transactions input forms
4. Workshop

Recall that there are about 9 informational input forms in MSIS; they enter PWS, sample, and analysis data to specified files. Again remember that the Data Entry Instructions provide detailed help when filling out any MSIS input form.

Purpose

The record creation and maintenance input forms, as a group, are used to enter information concerning the States' public water systems into the computer files. Since this type information is applicable to all subsystems maintaining PWS information, we will find the record creation and maintenance input forms used by PWSI, WAQC, VAEX, ENAC, and OPER.

There are a total of 13 forms in this category. We will now look briefly at each of the first 12 forms, and study the thirteenth one--Operator and Mailing Input Form--in some detail.

Public Water System Inventory Input Forms--PWSI.104 & PWSI.105

This form has two parts. Part one is shown on the slide. Both are used to input information to the public water file which maintains information on all PWS data. Nearly 100 data elements may be entered on this form. The form is used (1) whenever a PWS was not on the National Inventory File and converted into the PWS and (2) to correct errors. A separate form is used to delete records from the PWF.

MSIS required data elements are:

For each public water system:

* ID (Identification)
* Plant type - community
  non-community
* Population served
* Water source code - ground
  surface
  purchased
  - At least one water source must be identified for each public water system.

Variances and Exemptions Input Forms

This group of three forms is used to input information to VAEX when an exemption or a variance is granted to a public water system. VAEX.100, provides a card code of 0.0, for a record creation and a current status of the PWS to whom the variance or exemption was granted--see the eight lines at the bottom of the form headed, "Case Abstract".

VAEX.101 is used to report the progress of the PWS in meeting the full regulation requirements. Such progress is reported in lines two through five, field positions 16-45.

VAEX.107, the last of the three forms used by VAEX, permits entering an abstract concerning the case. It may also be used to delete a record.

MSIS required data elements are:

For each variance or exemption:

* Variance and exemption ID
* Type - variance
  exemption

Enforcement Actions Input Forms

There are four enforcement actions input forms. When a public water system incurs a violation, the State is required to take action to insure that the violation is corrected. The State uses ENAC.101 to record its efforts on the ENAC file. Notice the initial record creation in line one, field three.

ENAC.104 is for milestone information; that is, progress reports.

ENAC.103 allows the State to record in abstract form its actions to clear the violation. Obviously, the State can choose what it enters and what it doesn't.

The last form, ENAC.102, is used to delete the violation after the PWS has fulfilled all regulatory requirements.

MSIS required data elements are:

For each enforcement action:

* Enforcement actions ID

WAQC Input Forms

There are two forms, WAQC.136 and WAQC.137, which are used to enter special violations data onto the Violations File (VIF). While the VIF normally is automatically updated with MCL and sampling violations, it is possible to add those two types of violations directly to the VIF as well as other violation types, such as reporting. WAQC.137 also provides the ability to delete a record from the VIF.

MSIS required data elements are:

For violations:

* Public water system ID
* Regulation level - federal
  State
* Violation type
* Violation date
* Violation ID

Operator and Mailing Record Creation and Maintenance Input Form

The OPER input form is used to enter and update names and addresses of PWS operators and others frequently contacted by the States. Only one form is used, and it will be examined in detail.

In reviewing OPER.100, there are several things of particular note. First, that if we desire to create a new record, we complete line 1; second, if we desire to update an existing record, we omit the first and last data entry lines but complete the remainder of the form as required; third, if we desire to delete information from a record currently stored on the file, we complete the last line.

1. Note that field two is pre-printed in each data entry line. The first code of 00 is record creation. The next three (01, 02, & 03) identify address information. The last one, 99, is for record deletion.
2. The first field, positions 1-5, contains the State-assigned operator and mailing identification number. Note the entry is right-justified.

3. The third field, position 8, establishes a new record if a "Y" is entered. As per instructions on the form, if no new record is desired, the entry line is left blank.

4. Note that this last line on this form is quite similar to line one, except that it is used to delete a record.

5. On line two, O & M type in position 8 follows the standard O & M identification number and pre-printed card code.

6. The next few lines are for a complete address and phone number. The name and street address are left-justified.

7. On line six (card code 03), the State-assigned certificate number for the PWS operator, PWS ID, operator class, and certificate renewal date follow. States may not grant permanent operator certificates.

The MSIS required data elements are:

For each operator or mailing addressee:

* ID (Identification)
* Type - operator
  other categories
* Name
* Street
* City
* State
* Zip

<u>Review</u>.

Now that we've looked at 13 record creation and maintenance forms, let's review them:

. PWSI -- used to enter more than 100 data elements and delete records --3 forms
. VAEX -- used to enter or delete records about a variance or exemption-- 3 forms
. ENAC -- used to enter or delete records about enforcement actions--4 forms
. WAQC -- to enter or delete records from the violations file -- 2 forms
. OPER -- to enter or delete records about operators and others -- 1 form

Notice that all the record creation and maintenance forms permit entering AND deleting records. MSIS required data elements occur in all of the five subsystems' record creation and maintenance forms.

Purpose

This is the last of the four categories of input forms. Up until this point, we have discussed processing options, table creation, and record creation and maintenance input forms. Although the last discussed, the water quality transaction input forms are undoubtedly the most important--they are the workhorse forms of the MSIS. These forms may be used hundreds of times every year to add or delete PWS water quality information. Five input forms are found in this category.

The water quality transactions input forms do two things: (1) enter data about a PWS's water quality on the Periodic Sample File (PSF), and (2) delete erroneous records from the PSF and from its daughter file, the Sample Analysis File (SAF). Recall that the SAF is automatically created from the PSF.

Entering Water Quality Data

Three input forms enter data to the PSF:

- Bacteriological or turbidity analysis
- Bacteriological or turbidity summary analysis
- and Chemical or radiological analysis, which is presented in detail.

Note that one form may be used for one of two contaminants--for example, bacteriological or turbidity analysis--because the data required is very similar for each.

These three forms are called turnaround documents, meaning that the computer has already printed some information on them but more information must be filled out by the PWS, the laboratory, or State water division personnel. Turnaround documents save time because only new information need be filled out by hand.

Bacti or Turbidity Analysis (WAQC.107)

Note that the two bacti turbidity analysis forms permit either individual sample data or summary data to be input, as is allowed in the regulations. The basic information needed here concerns (1) conditions under which the sample was taken, (2) PWS ID, (3) contaminant ID, and (4) analysis results. Ten samples may be entered on one form.

Bacti or Turbidity Summary Analysis (WAQC.108)

Again, PWS ID, contaminant ID are required, along with summarized analysis results, beginning and end dates of the sampling period.

Chemical or Radiological Analysis (WAQC.101), a turnaround document

Here is the third and last form used to enter data on the PSF. It enters analysis information concerning either a chemical or radiological contaminant. Note that the form has spaces for entering keypunch information as well as blank spaces for entering hand-written or typed information.

This form is used as a turnaround document, with some information entered by the computer, some by the PWS and some by the lab. The completed form is then returned to the State for input to the WAQC subsystem.

Starting the process, the WAQC subsystem completes the PWS ID, name and address, and contaminant ID and contaminant name. The form is then forwarded to the PWS.

Next, the PWS completes the last data entry line. Field one is the location code and name; field two the date the sample was collected. Field three is a key code for sample type; field four is the time the sample was collected, in hours and minutes (right-justified). Field five is the lab ID and field 6, the lab name. The PWS then forwards the form to the lab.

Third, the lab performs the analysis and completes the rest of the form.

Starting in positions 14-16, the first field is the method used to analyze the sample. This is followed by the analysis results. Note that position 21 is headed "DECIMALS". This refers to the number of decimals in the field position 17-20. As an example, 4.010 would be three decimals and the number three would be entered in position 17.

Field four is the common, six-position, right-justified date. The next column heading, "DUP 28-46 (BELOW)", is an instruction to the keypunch operator to enter the last data entry line, positions 28-46, on each card punched. This is certainly needed, since it contains the lab information.

The last column here is not for data entry since no card positions are shown.

The MSIS required data elements are:

For each sample:

* Public water system ID
* Contaminant ID
* Sample type - regular
  check
  raw, etc.
* Sample date or date of last sample
* Sample analysis method (except for turbidity)
* Lab ID

Additional data elements on individual sample forms:

* Sample time (for bacti and turbidity)
* Analysis result
* Analysis date
* Sample location (to associate check samples with regular samples)

Additional data elements on summary sample forms:

* Mean analysis result
* Actual number of samples taken
* Sample period - start date
  end date
* Flag if check samples taken - federal
  State
* Number of check samples taken
* Number of samples in violation - federal
  State

Error Correction

Having entered PWS data on the PSF, suppose that our input report shows us an error. It is necessary to correct the error on the PSF.

We saw earlier that most of the record creation and maintenance forms included a data entry line for record deletion. Two files, however--PWF and its daughter, SHF--contain such critical data used to determine violations that a special procedure was adopted to guard against unnecessary file access.

That special procedure is a two-step process. In step one, a deletion input form is filled out; it will erase all of the record containing errors. In step two, a new, correct record is input using the appropriate water quality transaction input form.

Sample deletion transactions (WAQC.105 and WAQC.110)

There are two sample deletion transactions input forms. One deletes erroneous records from the PSF; the other does the same from the SAF, which is automatically created from the PSF. We will examine WAQC.105, deletions to the PSF, in detail.

While Unit 3 deals with reports in detail, we must note here that one finds errors in MSIS computer records when reading printed reports which contain or flag the error. Thus, the prior step to filling out either of the two sample deletion transactions is having examined reports.

The only difference in the forms is their name and form number. Let's note first that this form contains 10 lines of keypunch information for 10 cards, and that all lines are identical.

1. The first line in each line is for the PWS ID.
2. This is followed by the card code, pre-printed--01 for record deletion.
3. Contaminant ID goes into positions 10-13. See the Code Value Table for the correct contaminant ID number. Notice that the contaminant name, which comes next, is not entered on the keypunch card and is not used by the computer.
4. Positions 14-16 are for the code for the analysis method, also found in the Code Value Table.
5. The sample key, positions 17-26, are taken from the error report. Some error reports have a column called sample key; copy it here. Others have a record key; use the last 11 positions, omitting the final position.

In summary, this form and its identical companion are used to delete information from the Periodic Sample File and the Sample Analysis File, both of which are maintained by the Water Quality Compliance subsystem.

Since the card contains provisions for 10 identical entries, 10 separate deletions could be made with one input form.

31B1
(1-4)

MSIS BACKGROUND INFORMATION

Name: _____ Postal Code: ____ Date: / / / / /
(5) (30) (31-32) Month Day Year (33-38)

1. Circle which MSIS training courses you have already taken:

   (39) a. None. Go to question 2.

   (40) b. MSIS Overview

   (41) c. MSIS Subsystems

   (42) d. Data Entry

2. Have you filled out one of these MSIS Background Information forms before?

   (43) ___ Yes. Thank you for the data; go to the Pre-test.

   (44) ___ No. Go to question 3.

3. Age: ____ years (45)

4. Sex: ___M (46) ___F (47)

5. What was the highest level of schooling you attained? (circle one)

   9 10 11 12 High School (48) | 13 14 15 16 College (49) | M.A./M.S. (50) | Ph.D. (51)

   Other (please specify) _____ (52-76)

6. Specify your major where appropriate:

   _____ College (77) | _____ M.A./M.S. (78) | _____ Ph.D. (79) | _____ Other (80)

3]B2
(1-4)

7. What is your job title?_____
(5) (30)

8. How long have you held your present position?___years ___ months
(31) (32)

9. How many years experience do you have in the general area of your present job position?

_____
(33) (34)

10. Have you had training related to your present position in the past two years (other than the present MSIS training)?

(35) ___No. Go to question 11.

(36) ___Yes. Please answer the following:

a. What was the subject?_____
(37) (51)

b. What was the length of training?_____
(52) (55)

c. Who offered the training?_____
(56) (65)

d. Rate your knowledge resulting from the training.

(66) None (67) A little (68) Some (69) Quite a bit

(70) Great deal

11. Please rate your current knowledge level of data processing (circle the appropriate answer).

(71) None (72) A little (73) Some (74) Quite a bit

(75) Great deal

12. Please rate your current knowledge level of the Federal Regulations pertaining to Safe Drinking Water Act of 1974 (circle the appropriate answer).

(76) None (77) A little (78) Some (79) Quite a bit

(80) Great deal

Thank you for your cooperation.

PRE-TEST

DATA ENTRY

Name: _____ (5-30) Postal Code ____ (31-2) Date ____/____/____ Month Day Year (33-8)

1. Match the following functions with their appropriate subsystems:

Subsystem		Function
a. Regulations	(39)	____ Maintains information on PWS's that have special conditions
b. Enforcement Actions		
c. Water Quality Compliance	(40)	____ Does the checking on the analyses of water quality
d. Variances & Exemptions		
e. Standard Processing	(41)	____ Maintains information on the activities ensuring compliance
	(42)	____ Gives the computer information to determine violations
	(43)	____ Performs common functions among subsystems

2. Match the types of input forms with their function:

Form		Function
a. Processing option	(44)	____ Enters PWS-related data to files
b. Table creation	(45)	____ Enters data to MSIS tables
c. Record creation & maintenance	(46)	____ Enters sample and analysis data
d. Water quality transactions	(47)	____ Enables the user to specify a needed PWS listing
	(48)	____ Enables the user to specify needed reports

3. Circle the abbreviations for the 5 subsystems which have Record creation and maintenance input forms:

(49) a. BIPS	(53) e. FEDR	(57) i. SRVY
(50) b. WAQC	(54) f. VAEX	(58) j. MSIS
(51) c. OPER	(55) g. REGS	(59) k. PWSI
(52) d. LIMT	(56) h. ENAC	(60) l. QUAL

4. Circle T (True) or F (False) for each of the following statements:

T F (61) "SORT" is a processing option input form used to specify desired sequence of records for output.

T F (62) "SEL2" is a processing option input form used to initiate a program.

T F (63) "SEL1" is the processing option input form used to select records from MSIS files.

T F (64) A program run cannot be initiated without using a "PROC" form.

T F (65) The Laboratory input form is seldom used because the laboratory table is supplied by MSIS.

T F (66) A State used the Code Value Table input form to enter its own acceptable data element values.

T F (67) The Data Element Table input form is used to enter a detailed description of information about a data element.

T F (68) A Record Creation and Maintenance input form is used to change PWS data.

T F (69) Water Quality Transactions input forms are used either to add or to delete sample and analysis data.

T F (70) The records on the Periodic Sample File and Sample Analysis File can be changed without deleting the entire record.

5. The Data Element Table input form <u>cannot</u> be used to identify which of the following:

(71) a. Which file used in
(72) b. New error code
(73) c. Name for field
(74) d. New catalogue number

6. Check the Water Quality Transaction input forms:

(75) a. ____Bacteriological or Turbidity Analysis
(76) b. ____Inorganic Chemical Contaminant
(77) c. ____Chemical or Radiological Analysis
(78) d. ____Sample Deletion Transactions
(79) e. ____Physical Contaminant Summary

7. Rate your current level of knowledge about MSIS: (Circle one)

(80)None (81)A little (82)Some (83)Quite a bit (84)A great deal

SLIDE REPRODUCTIONS

III.1.S1

Volume III
Data Entry

MSIS Input Forms

- Processing Options
- Table Creation
- Record Creation and Maintenance
- Water Quality Transactions

Operational Input Forms

- Processing Options Input Forms
- Table Creation Input Forms

Informational Input Forms

- Record Creation and Maintenance
- Water Quality Transactions

Unit I
Operational Input Forms

- Processing Options
- Table Creation

Processing Option
Input Forms

PROC
SORT
SEL1 (Selection Criteria 1)
SEL2 (Selection Criteria 2)

- **Table Creation Input Forms**

Error Message Table (EMT)
Data Element Table (DET)
Code Value Table (CVT)
Laboratory Table (LBT)
Regulations File (RGF)

TYPES OF ERROR MESSAGES

Reject (0--)
Invalid (4--)
Warning (1--)

III.1.S2

Regulations File
Contaminant Input Forms

Turbidity
Chemical
Bacteriological
Gross Alpha Radionuclide
Gross Beta Radionuclide

Regulations File
Variable Input Forms

Population Table for
Bacteriological Sampling
Fluoride MCL Table
Major Beta Emitter Table

REGS010

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS.100

PROCESSING OPTIONS FOR JOB _____

CARD ID

P	A	G	C

1-4

DATE

M	D	Y

5-10

STANDARD ERROR PROCESSING OPTIONS:

☐ 11 Y = YES - CREATE A SPECIAL FILE OF ERROR RECORDS
N = NO - DO NOT CREATE A SPECIAL OUTPUT FILE

☐ 12 Y = YES - PRINT ONLY THE DATA ELEMENT FIELDS WHICH WERE IN ERROR
N = NO - PRINT ALL DATA ELEMENT FIELDS

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.1.S4

REGS010

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS.100

PROCESSING OPTIONS FOR JOB _____

CARD ID	DATE M D Y
P A O C	0 9 / 0 7 7
1-4	5-10

STANDARD ERROR PROCESSING OPTIONS:

[N] 11 Y = YES - CREATE A SPECIAL FILE OF ERROR RECORDS
N = NO - DO NOT CREATE A SPECIAL OUTPUT FILE

[Y] 12 Y = YES - PRINT ONLY THE DATA ELEMENT FIELDS WHICH WERE IN ERROR
N = NO - PRINT ALL DATA ELEMENT FIELDS

PREPARED BY J. Smith DATE 9/9/77

APPROVED BY _____ DATE __/__/__

III.1.S5

WAQC040

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.113

SORT OPTIONS FOR JOB _____

CARD ID	SORT SEQUENCE	MNEMONIC NAME OF DATA ELEMENT	SORT MODE	
S O R T 1-4	5-6	7-16	17	A=ASCENDING D=DESCENDING
	18-19	20-29	30	A=ASCENDING D=DESCENDING
	31-32	33-42	43	A=ASCENDING D=DESCENDING
	44-45	46-55	56	A=ASCENDING D=DESCENDING
	57-58	59-68	69	A=ASCENDING D=DESCENDING

III.1.S6

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

MSIS040

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS.108

STANDARD HISTORY FILE

SELECTION FORM - DEFINITION OF DATA ELEMENTS

CARD ID	DATA ELEMENT MNEMONIC NAME	DATA ELEMENT COMPARATIVE VALUE	DATA ELEMENT LOGIC ID NO.
S E L 1			
1-4	5-14	15-29	30-31
OVP 1 - 4			
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.			
.			
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PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.S7

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM
STANDARD HISTORY FILE
SELECTION FORM - DEFINITION OF LOGIC FOR SELECTION

RELATION SYMBOLS: LT = LESS THAN GT = GREATER THAN NG = NOT GREATER THAN
EQ = EQUAL NL = NOT LESS THAN NX = NOT EXISTS (EMPTY)

CARD ID	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL
S E L 2 (1-4)	01	5-6	02	7-8	03	9-10	04	11-12
	05	13-14	06	15-16	07	17-18	08	19-20
	09	21-22	10	23-24	11	25-26	12	27-28
	13	29-30	14	31-32	15	33-34	16	35-36
	17	37-38	18	39-40	19	41-42	20	43-44
	21	45-46	22	47-48	23	49-50	24	51-52
	25	53-54	26	55-56	27	57-58	28	59-60
	29	61-62	30	63-64	31	65-66	32	67-68
	33	69-70	34	71-72	35	73-74		

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.1.S.8

PWS1020.080

MODEL STATE INFORMATION SYSTEM

PWS1.107

PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

SELECTION FORM - DEFINITION OF DATA ELEMENTS

CARD ID	DATA ELEMENT MNEMONIC NAME	DATA ELEMENT COMPARATIVE VALUE	DATA ELEMENT LOGIC ID NO.
S E L 1			
1-4	5-14	15-29	30-31
UUP 1 - 4			
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PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.59

PWSI020.080

MODEL STATE INFORMATION SYSTEM

PWSI.108

PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

SELECTION FORM - DEFINITION OF LOGIC FOR SELECTION

RELATION SYMBOLS: LT = LESS THAN
EQ = EQUAL
GT = GREATER THAN
NL = NOT LESS THAN
NG = NOT GREATER THAN
NX = NOT EXISTS (EMPTY)

CARD ID	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL
S E L 2 (1-4)	01	5-6	02	7-8	03	9-10	04	11-12
	05	13-14	06	15-16	07	17-18	08	19-20
	09	21-22	10	23-24	11	25-26	12	27-28
	13	29-30	14	31-32	15	33-34	16	35-36
	17	37-38	18	39-40	19	41-42	20	43-44
	21	45-46	22	47-48	23	49-50	24	51-52
	25	53-54	26	55-56	27	57-58	28	59-60
	29	61-62	30	63-64	31	65-66	32	67-68
	33	69-70	34	71-72	35	73-74		

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.S10

PWSI020.080

MODEL STATE INFORMATION SYSTEM

PWS1.107

PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

SELECTION FORM - DEFINITION OF DATA ELEMENTS

CARD ID 1-4	DATA ELEMENT MNEMONIC NAME 5-14	DATA ELEMENT COMPARATIVE VALUE 15-29	DATA ELEMENT LOGIC ID NO. 30-31
SEL1	PH-REGION	02	01
UUP 1 - 4			
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PREPARED BY J. Smith DATE 9/9/77

APPROVED BY _____ DATE __/__/__

III.1.S11

MODEL STATE INFORMATION SYSTEM

PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

SELECTION FORM - DEFINITION OF LOGIC FOR SELECTION

RELATION SYMBOLS: LT = LESS THAN; EQ = EQUAL; GT = GREATER THAN; NL = NOT LESS THAN; NG = NOT GREATER THAN; NX = NOT EXISTS (EMPTY)

CARD ID	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL
SEL2 (1-4)	01	EQ (5-6)	02	(7-8)	03	(9-10)	04	(11-12)
	05	(13-14)	06	(15-16)	07	(17-18)	08	(19-20)
	09	(21-22)	10	(23-24)	11	(25-26)	12	(27-28)
	13	(29-30)	14	(31-32)	15	(33-34)	16	(35-36)
	17	(37-38)	18	(39-40)	19	(41-42)	20	(43-44)
	21	(45-46)	22	(47-48)	23	(49-50)	24	(51-52)
	25	(53-54)	26	(55-56)	27	(57-58)	28	(59-60)
	29	(61-62)	30	(63-64)	31	(65-66)	32	(67-68)
	33	(69-70)	34	(71-72)	35	(73-74)		

PREPARED BY J Smith DATE 9/9/77

APPROVED BY ____ DATE __/__/__

III.1.S12

STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE INPUT FORM

CARD ID	FILE ID	ERROR CODE	ERROR MESSAGE
[1]	[M][S]		
1	2-3	4-6	7-34
		35-37	38-65
OVP 1-3		4-6	7-34
		35-37	38-65
OVP 1-3		4-6	7-34
		35-37	38-65
OVP 1-3		4-6	7-34
		35-37	38-65
OVP 1-3		4-6	7-34
		35-37	38-65

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

MS15030 MSIS.102

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE INPUT FORM

CARD ID	FILE ID	ERROR CODE	ERROR MESSAGE
1 (1)	MS (2-3)	001 (4-6)	REJECT-INVALID RECORD-ID (7-34)
		002 (35-37)	REJECT-RECORD ALREADY EXISTS (38-65)
DUP 1-3		003 (4-6)	REJECT-NO MATCHING RECORD-ID (7-34)
		004 (35-37)	REJECT-RECORD IS INCOMPLETE (38-65)
		005 (4-6)	REJECT-CONTAM ID INVALID (7-34)
		006 (35-37)	REJECT-STATE VALUE TOO LOW (38-65)
		007 (4-6)	REJECT-STATE VALUE TOO HIGH (7-34)
		008 (35-37)	REJECT-FED. RECORD MISSING (38-65)
		009 (4-6)	REJECT-REC. HAS INVALID DATA (7-34)
		010 (35-37)	REJECT-NOT NUMERIC (38-65)

PREPARED BY J. Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE INPUT FORM

CARD ID	FILE ID	ERROR CODE	ERROR MESSAGE
I (1)	MS (2-3)	401 (4-6)	INVALID-NOT NUMERIC (7-34)
		402 (35-37)	INVALID-NOT IN CODE TABLE (38-65)
DUP 1-3		403 (4-6)	INVALID-NOT A VALID DATE (7-34)
		404 (35-37)	INVALID-ELEMENT EXCEEDS MAX (38-65)
		405 (4-6)	INVALID-ELEMENT BELOW MIN (7-34)
		406 (35-37)	INVALID-ELEMENT MISSING (38-65)
		407 (4-6)	INVALID-VALUE UNACCEPTABLE (7-34)
		408 (35-37)	INVALID-NOT ALPHABETIC (38-65)
		409 (4-6)	INVALID-NOT ON PUB WATER TBL (7-34)
		410 (35-37)	INVALID-ASSOC VALUE MISSING (38-65)

PREPARED BY J Smith DATE 6/23/77

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MSI5030 MODEL STATE INFORMATION SYSTEM MSI5.102

STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE INPUT FORM

CARD ID	FILE ID	ERROR CODE	ERROR MESSAGE
I (1)	MS (2-3)	101 (4-6)	WARNING-CHECK ELEMENT VALUE (7-34)
		102 (35-37)	WARNING-ELEMENT EXCEEDS MAX (38-65)
OVP 1-3		103 (4-6)	WARNING-ELEMENT BELOW MIN (7-34)
		104 (35-37)	WARNING-NOT IN CODE TABLE (38-65)
.		105 (4-6)	WARNING-NOT IN DATA ELE TBL (7-34)
		106 (35-37)	WARNING-DEFAULT VALUE USED (38-65)
.		(4-6)	(7-34)
		(35-37)	(38-65)
.		(4-6)	(7-34)
		(35-37)	(38-65)

PREPARED BY J. Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

MSIS030

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS.104

DATA ELEMENT TABLE INPUT FORM

CARD ID	FILE ID	D.E. CATALOGUE NUMBER	START POSITION TRANSACTION / FILE		FIELD LENGTH FILE/TRANSACTION		MNEMONIC NAME	HISTORY KEPT	
3									Y=YES N=NO
1	2-3	4-6	7-8	9-12	13-14	15-16	17-26	27	
DUP 1									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO
.									Y=YES N=NO

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.S17

4S15030

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS.104

DATA ELEMENT TABLE INPUT FORM

CARD ID (1)	FILE ID (2-3)	D.E. CATALOGUE NUMBER (4-6)	START POSITION TRANSACTION (7-8)	START POSITION FILE (9-12)	FIELD LENGTH FILE/TRANSACTION (13-14)	FIELD LENGTH FILE/TRANSACTION (15-16)	MNEMONIC NAME (17-26)	HISTORY KEPT (27) Y=YES N=NO
3	LØ	319	Ø1	ØØØ1	05	05	LØ-ID	W
DUP 1	OM	490	22	Ø133	Ø6	Ø1	OM-OP-CLS	Y
.	PH	310	ØØ	ØØØ1	ØØ	07	PH-PWS-ID	Y
.	PS	918	Ø8		Ø2		PS-TRAN-CO	N
.								
.								
.								
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PREPARED BY J Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

III.1.S18

M313030

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

M313.103

CODE VALUE TABLE INPUT FORM

CARD ID	FILE ID	D.E. CATALOGUE NUMBER	D.E. VALUE	D.E. LENGTH	D.E. DESCRIPTION
2					
1	2-3	4-6	7-15	16	17-46
DUP 1					
.					
.					
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.					
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.					
.					

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.S19

M315030 MODEL STATE INFORMATION SYSTEM M315.103

STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE INPUT FORM

CARD ID (1)	FILE ID (2-3)	D.E. CATALOGUE NUMBER (4-6)	D.E. VALUE (7-15)	D.E. LENGTH (16)	D.E. DESCRIPTION (17-46)
2	LØ	8Ø9	ØØ1	3	NEPHELOMETRIC
DUP 1	LØ	321	P	1	PUBLIC WATER SUPPLY
.	MS	ØØ1	Ø1ØØ	4	TURBIDITY
.	OM	479	1	1	PUBLIC WATER SYSTEM - COM
.	EA	449	I	1	INITIAL ACTION PENDING
.	EA	449	L	1	NOT A LEGAL ACTION
.					
.					
.					
.					
.					
.					

PREPARED BY J Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

III.1.S20

WAQC210

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.101

LABORATORY TABLE INPUT FORM

LAB ID [ ][ ][ ][ ] (1-5)

[9] (6)

OWNER TYPE [ ] (7)

LABORATORY NAME [ ] (8 - 37)

EXPIRATION DATE
M D Y
[ ][ ][ ][ ][ ][ ] (38-43)

CARD CODE: [L][1] (79-80)

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.S21

WAQC210

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.102

LABORATORY TABLE INPUT FORM

LAB ID [ ][ ][ ][ ] 1-5

CONTAMINANT GROUP [ ] 6

AUTHORIZED ANALYSIS METHOD CODES

7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	31-33	34-36
37-39	40-42	43-45	46-48	49-51	52-54	55-57	58-60	61-63	64-66
67-69	70-72	73-75	76-78						

CONTAMINANT GROUP CODES
0 - TURBIDITY
1 - INORGANIC CHEMICALS
2 - ORGANIC CHEMICALS
3 - MICROBIOLOGICAL
4 - RADIONUCLIDE
9 - OTHER

CARD CODE: [L][2] 79-80

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.S22

WAQC210 WAQC.101

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM
LABORATORY TABLE INPUT FORM

LAB ID	OWNER TYPE	LABORATORY NAME
00001	9	P	COMMONWEALTH OF VIRGINIA
1-5	6	7	8 - 37

EXPIRATION DATE
M D Y
06 24 78
38-43

CARD CODE: L 1
79-80

PREPARED BY J Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

III.1.S23

WAQC210

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.102

LABORATORY TABLE INPUT FORM

LAB ID	CONTAMINANT GROUP
0 0 0 0 1	0
1-5	6

AUTHORIZED ANALYSIS METHOD CODES

0 0 1									
7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	31-33	34-36
37-39	40-42	43-45	46-48	49-51	52-54	55-57	58-60	61-63	64-66
67-69	70-72	73-75	76-78						

CONTAMINANT GROUP CODES
0 - TURBIDITY
1 - INORGANIC CHEMICALS
2 - ORGANIC CHEMICALS
3 - MICROBIOLOGICAL
4 - RADIONUCLIDE
9 - OTHER

CARD CODE: L 2
79-80

PREPARED BY J. Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

III.1.S24

REG9010 REG9.102

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM
TURBIDITY CONTAMINANT INPUT FORM

CONTAMINANT ID: 0100 (1 - 4)

REGULATION/LEVEL: (5-6)

CONTAMINANT NAME: TURBIDITY (7 - 15)

MCL FOR MONTHLY AVERAGE: (16-17)

MCL FOR CONSECUTIVE SAMPLES: (18-19)

NUMBER OF CONSECUTIVE SAMPLES: (20-21)

EFFECTIVE DATE: M D Y (22 - 27)

APPLY TO ALL SOURCES: (28)

INCLUDE REPEAT SAMPLES IN AVERAGE: (29)

FREQUENCY OF MONITORING

COMMUNITY PWS: (30-32) NON-COMMUNITY PWS: (33-35)

MINIMUM RESAMPLING PERIOD IF MCL EXCEEDED: (36-37)

III.1.S25

PREPARED BY _____ DATE ___/___/___ CARD CODE: T1 (79-80)

APPROVED BY _____ DATE ___/___/___

REG5010 REG9.102

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM
TURBIDITY CONTAMINANT INPUT FORM

CONTAMINANT ID: 0100 (1 - 4)

REGULATION/LEVEL: FP (5-6)

CONTAMINANT NAME: TURBIDITY (7 - 15)

MCL FOR MONTHLY AVERAGE: 01 (16-17)

MCL FOR CONSECUTIVE SAMPLES: 05 (18-19)

NUMBER OF CONSECUTIVE SAMPLES: 02 (20-21)

EFFECTIVE DATE (M D Y): 062477 (22 - 27)

APPLY TO ALL SOURCES: N (28)

INCLUDE REPEAT SAMPLES IN AVERAGE: Y (29)

FREQUENCY OF MONITORING

COMMUNITY PWS: 365 (30-32)

NON-COMMUNITY PWS: 000 (33-35)

MINIMUM RESAMPLING PERIOD IF MCL EXCEEDED: 60 (36-37)

III.1.826

PREPARED BY J Smith DATE 6/23/77 CARD CODE: T1 (79-80)

APPROVED BY _____ DATE __/__/__

REGS010

MODEL STATE INFORMATION SYSTEM

REGS.101

REGULATIONS SUBSYSTEM

CHEMICAL CONTAMINANT INPUT FORM

CONTAMINANT ID [ ][ ][ ][ ] 1 - 4

REGULATION/LEVEL [ ][ ] 5-6

CHEMICAL NAME [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] 7 - 17

REASON FOR MONITORING [ ] 18

MCL UNITS [ ][ ][ ][ ][ ][ ] 19 - 24

MCL [ ][ ][ ][ ][ ][ ] 25 - 30

MCL DECIMALS [ ] 31

REASONABLE BOUNDS LOWER [ ][ ][ ][ ][ ] 32 - 36

DECIMALS [ ] 37

UPPER [ ][ ][ ][ ][ ] 38 - 42

DECIMALS [ ] 43

NUMBER OF CHECK SAMPLES REQUIRED IF REGULAR SAMPLE VIOLATES [ ] 44

SEASONAL SAMPLING (ORGANIC ONLY) [ ] 45

SPECIAL COMPUTATION [ ] 46

MAXIMUM TIME TO INITIATE SECOND SAMPLE ANALYSIS IF REGULAR SAMPLE IS IN VIOLATION (NITRATE ONLY) [ ][ ] 47-48

PERIOD WITHIN WHICH CHECK SAMPLES MUST BE MADE [ ][ ] 49-50

	PWS TYPE	EFFECTIVE DATE (M D Y)	MONITORING REQUIREMENTS: SOURCE TYPE	YEARS TO FIRST SAMPLE	NORMAL SAMPLING FREQUENCY	IF MCL IS VIOLATED: MINIMUM SAMPLING FREQUENCY	MINIMUM NUMBER OF SUCCESS NEGATIVE SAMPLES
COMMUNITY:		[ ][ ][ ][ ][ ][ ] 51 - 56	GROUND:	[ ] 57	[ ][ ][ ][ ] 58 - 61	[ ][ ][ ][ ] 62 - 65	[ ][ ] 66-67
			SURFACE:	[ ] 68	[ ][ ][ ][ ] 69 - 72	[ ][ ][ ][ ] 73 - 76	[ ][ ] 77-78

CARD CODE: [C][1] 79-80

DUP 1-6

NON-COMMUNITY:	[ ][ ][ ][ ][ ][ ] 51 - 56	GROUND:	[ ] 57	[ ][ ][ ][ ] 58 - 61	[ ][ ][ ][ ] 62 - 65	[ ][ ] 66-67
		SURFACE:	[ ] 68	[ ][ ][ ][ ] 69 - 72	[ ][ ][ ][ ] 73 - 76	[ ][ ] 77-78

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

CARD CODE: [C][2] 79-80

III.1.S27

REG3010 REG9.104

MODEL STATE INFORMATION SYSTEM

REGULATIONS SUBSYSTEM

BACTERIOLOGICAL CONTAMINANT INPUT FORM

CONTAMINANT ID	REGULATION/LEVEL	CONTAMINANT NAME	EFFECTIVE DATE M D Y
3000		COLIFORM	
1 - 4	5-6	7 - 14	15 - 20

ANALYSIS METHOD	UNIT	SINGLE SAMPLE MCL	MONTHLY MCL	PERCENT OF SAMPLES	MINIMUM REQUIRED SAMPLES TO USE PERCENT	MCL WHEN PERCENT IS USED
MEMBRANE FILTER	COLIFORM	21-22	23-24	25-26	27-28	29-30
FERMENTATION TUBE 10ML.	POSITIVE TUBES	31-32	33-34 (%)	35-36	37-38	39-40
FERMENTATION TUBE 100ML.	POSITIVE TUBES	41-42	43-44 (%)	45-46	47-48	49-50

REQUIREMENTS FOR WAIVER OF ONE MONTH SAMPLING

MAXIMUM REQUIRED SAMPLES 51

SAMPLING PERIOD 52

CHECK SAMPLING REQUIREMENTS IF SINGLE SAMPLE MCL IS VIOLATED

MINIMUM NUMBER OF CONSECUTIVE DAILY CHECK SAMPLES 53

MINIMUM NUMBER OF CONSECUTIVE NEGATIVE PORTIONS 54

MINIMUM NUMBER OF CONSECUTIVE COLIFORM BACTERIA 55-56

CHLORINE RESIDUAL METHOD NUMBER OF SAMPLES IN LIEU OF ONE REGULAR SAMPLE 57-58

MAXIMUM PERCENT OF REGULAR SAMPLES 59-60

MINIMUM CHLORINE LEVEL 61-62

MAXIMUM TIME TO RETEST CHLORINE LEVEL 63-64

NON-COMMUNITY PWS MONITORING FREQUENCY

EFFECTIVE DATE M D Y	SEASONAL SAMPLING	PERIOD	NUMBER OF SAMPLES PER PERIOD
65 - 70	71	72	73-74

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

CARD CODE: M 1 (79-80)

III.1.S28

REGS010 REGS.107

MODEL STATE INFORMATION SYSTEM

REGULATIONS SUBSYSTEM

GROSS ALPHA RADIONUCLIDE CONTAMINANT INPUT FORM

CONTAMINANT ID	REGULATION/LEVEL	CONTAMINANT NAME	EFFECTIVE DATE (M D Y)
4000		GROSS ALPHA	
1-4	5-6	7-17	18-23

MCL AND SCREENING LEVELS: GROSS ALPHA MCL	COMBINED RADIUM MCL	MAXIMUM GROSS ALPHA SCREENING LEVEL: WITHOUT RADIUM-228	WITH RADIUM-228	MAXIMUM RADIUM-226 SCREENING LEVEL: FOR RADIUM-228	FOR ANNUAL MONITORING
24-26	27-29	30-32	33-35	36-38	39-41

SAMPLING AND ANALYSIS REQUIREMENTS

NUMBER OF SAMPLES PER YEAR	MINIMUM NORMAL MONITORING FREQUENCY	INITIAL MONITORING PERIOD FOR NEW WATER SOURCE	FRACTION OF MCL AT WHICH TO SUBSTITUTE SINGLE ANNUAL SAMPLE
42	43	44-45	46-47

MINIMUM MONITORING FREQUENCY IF PWS IS IN VIOLATION	ANNUAL COMPOSITE OR FOUR SAMPLE AVERAGE REQUIRED	THESE REGULATIONS APPLY TO COMMUNITY, NON-COMMUNITY OR BOTH
48-49	50	51

III.1.S29

PREPARED BY _____ DATE ___/___/___ CARD CODE: A1 (79-80)

APPROVED BY _____ DATE ___/___/___

REG3010 REG3.108

MODEL STATE INFORMATION SYSTEM

REGULATIONS SUBSYSTEM

GROSS BETA RADIONUCLIDE CONTAMINANT INPUT FORM

CONTAMINANT ID: 4100 (1-4)

REGULATION/LEVEL: ☐☐ (5-6)

CONTAMINANT NAME: GROSS BETA (7-16)

EFFECTIVE DATE: M D Y ☐☐ ☐☐ ☐☐ (17-22)

MCL AND SCREENING LEVELS

- MAN-MADE RADIONUCLIDE ANNUAL MCL DOSAGE: ☐☐ (23-24)
- TRITIUM SCREENING LEVEL: ☐☐☐☐☐ (25-29)
- STRONTIUM-90 SCREENING LEVEL: ☐☐☐ (30-32)
- MAXIMUM GROSS BETA SCREENING LEVELS FOR MAJOR BETA EMITTERS - NO NUCLEAR FACILITY CONTAMINATION: ☐☐☐ (33-35)
- MAXIMUM GROSS BETA SCREENING LEVELS FOR MAJOR BETA EMITTERS - WATERS CONTAMINATED BY A NUCLEAR FACILITY: ☐☐☐ (36-38)
- MAXIMUM GROSS BETA SCREENING LEVELS FOR STRONTIUM-89 AND CESIUM-134 - WATERS CONTAMINATED BY A NUCLEAR FACILITY: ☐☐☐ (39-41)

SAMPLING AND ANALYSIS REQUIREMENTS

- THESE REGULATIONS APPLY TO COMMUNITY, NON-COMMUNITY OR BOTH: ☐ (42)
- REQUIRE MONITORING OF GROUND WATER SOURCES: ☐ (43)
- COMPOSITE OR SAMPLE AVERAGE REQUIRED: ☐ (44)
- MINIMUM POPULATION FOR REQUIRED ANNUAL MONITORING: ☐☐☐☐☐☐ (45-50)

NO NUCLEAR FACILITY CONTAMINATION

- INITIAL NUMBER OF SAMPLES PER YEAR: ☐ (51)
- MINIMUM NORMAL MONITORING FREQUENCY: ☐ (52)
- MINIMUM MONITORING FREQUENCY IF PWS IS IN VIOLATION: ☐☐ (53-54)

WATERS CONTAMINATED BY A NUCLEAR FACILITY

- NUMBER OF SAMPLES PER YEAR
  - IODINE-131: ☐☐ (55-56)
  - STRONTIUM-90 AND TRITIUM: ☐☐ (57-58)
- MINIMUM NORMAL MONITORING FREQUENCY
  - IODINE-131: ☐☐ (59-60)
  - STRONTIUM-90 AND TRITIUM: ☐☐ (61-62)
- MINIMUM MONITORING FREQUENCY IF PWS IS IN VIOLATION: ☐☐ (63-64)
- IODINE-131 CONSECUTIVE DAILY SAMPLES REQUIRED PER QUARTER: ☐☐ (65-66)

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

CARD CODE: 81 (79-80)

III.1.S30

REG3010

MODEL STATE INFORMATION SYSTEM

REG9.103

REGULATIONS SUBSYSTEM

POPULATION TABLE FOR BACTERIOLOGICAL SAMPLING INPUT FORM

CONTAMINANT ID: 3 0 0 0 (1 - 4)

REGULATION/LEVEL: (5-6)

TABLE ID: 1 (7)

	POPULATION LOWER LIMIT (8 - 16)	POPULATION UPPER LIMIT (17 - 25)	MINIMUM SAMPLES PER MONTH (26-28)	CARD CODE
DUP 1-7				DUP 79-80
.				.
.				.
.				.
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.				.
.				.
	8 - 16	17 - 25	26-28	

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

CARD CODE: P 1 (79-80)

III.1.S31

REGS010

MODEL STATE INFORMATION SYSTEM

REGS.103

REGULATIONS SUBSYSTEM

POPULATION TABLE FOR BACTERIOLOGICAL SAMPLING INPUT FORM

CONTAMINANT ID: 3000 (1 - 4)

REGULATION/LEVEL: (5-6)

TABLE ID: 1 (7)

	POPULATION LOWER LIMIT (8 - 16)	POPULATION UPPER LIMIT (17 - 25)	MINIMUM SAMPLES PER MONTH (26-28)	CARD CODE
DUP	000028001	000033000	035	DUP
1-7	000033001	000037000	040	79-80
.	000037001	000041000	045	.
.	000041001	000046000	050	.
.	000046001	000050000	055	.
.	000050001	000054000	060	.
.	000054001	000059000	065	.
.	000059001	000064000	070	.
.	000064001	000070000	075	.
.	000070001	000076000	080	.
.	000076001	000083000	085	.
.	000083001	000090000	090	.
.	000090001	000096000	095	.
.	000096001	000111000	100	.
.	000111001	000130000	110	.
	(8 - 16)	(17 - 25)	(26-28)	

PREPARED BY J. Smith DATE 6/23/77 CARD CODE: P1 (79-80)

APPROVED BY _____ DATE __/__/__

III.1.S32

REG9010 REG9.105

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

FLUORIDE MCL TABLE INPUT FORM

CONTAMINANT ID: 1 0 2 5 (1 - 4)

REGULATION/LEVEL: (5-6)

TABLE ID: 2 (7)

CARD CODE

TEMPERATURE RANGES AND CORRESPONDING MCL

DUP 1-7	FAHRENHEIT LOWER 8-10	FAHRENHEIT UPPER 11-13	CELSIUS LOWER 14-16	CELSIUS UPPER 17-19	MCL 20 - 25	DUP 26-37 (BELOW)	DUP 79-80
	8-10	11-13	14-16	17-19	20 - 25		

REASONABLE BOUNDS

26-28	29-31	32-34	35-37

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

CARD CODE: F 1 (79-80)

III.1.S33

REG3010 REG3.108

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM
MAJOR BETA EMITTER TABLE INPUT FORM

REGULATION/LEVEL [ ][ ] 5-6

TABLE ID [3] 7

EFFECTIVE DATE M D Y [ ][ ][ ][ ][ ][ ] 8-13

CONTAMINANT ID 1-4	CONTAMINANT NAME 14-28	ANNUAL CONCENTRATION EQUIVALENT TO MCL DOSE 29-34	DETECTION LIMIT 35-38	NUCLEAR FACILITY CODE(S) 39 40 41 42 43	CARD CODE
[4][ ][ ][ ]					DUP
[4][ ][ ][ ]					79-80
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
[4][ ][ ][ ]					.
1-4	14-28	29-34	35-38	39 40 41 42 43	

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

CARD CODE: [E][1] 79-80

III.1.S34

Unit II
Informational Input Forms

Informational Input Forms
- Record Creation and Maintenance
- Water Quality Transactions

Record Creation and Maintenance Forms
- Public Water System Inventory
- Variances and Exemptions
- Enforcement Actions
- Operator and Mailing

Water Quality Transactions Input Forms
- Bacteriological or Turbidity
- Bacteriological or Turbidity Summary
- Chemical or Radiological
- Sample Deletion (PSF)
- Sample Deletion (SAF)

III.2.S1

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM
RECORD CREATION AND MAINTENANCE FORM

III.2.S2

DATE

(1-7) PWS ID | (8-9) CMD CODE | (10) ENTER 'Y' IF CREATING A NEW RECORD

(1-7) DUP | (8-9) 01 | (10-39) PLANT OWNER NAME | (40-69) STREET

(1-7) DUP | (8-9) 02 | (10-39) CITY | (40-46) STATE | (40-46) ZIP CODE | (47) OWNER TYPE

(1-7) DUP | (8-9) 03 | (10-39) MAILING NAME | (40-69) STREET

(1-7) DUP | (8-9) 04 | (10-39) CITY | (40-46) STATE | (40-46) ZIP CODE | (47-49) AREA CODE | (50-56) PHONE NO.

(1-7) DUP | (8-9) 05 | (10-34) PLANT AREA CITY NAME | (35-37) COUNTY CODE | (38-39) IND. RESERV. | (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49)

WEEKDAYS | SATURDAYS | SUNDAYS | WEEK DAYS | WEEKEND | HOURS | DAYS | SCHOOLS | PUBLIC BLDGS | COMMERCIAL | HOLIDAYS | HOURS | DAYS | SCHOOLS | COMMERCIAL | WEEKDAYS | WEEKEND | HOURS | DAYS | HOLIDAYS

(1-7) DUP | (8-9) 06 | (10-14) # OF CONSECUTIVE PWS'S | (17) INTERSTATE CARRIER | (18) PLANT TYPE | (19-27) POPULATION SERVED | (28-34) # OF SERVICE CONNECTIONS | (35-41) # OF METERS | (42) CONSECUTIVE INDICATOR

(1-7) DUP | (8-9) 07 | (10-19) PLANT AVERAGE PRODUCTION | (20-29) PLANT DESIGN CAPACITY | (30-39) PLANT EMERGENCY POWER CAPACITY | (40-49) PLANT STORAGE CAPACITY | (50-59) PLANT MAXIMUM PRODUCTION

(1-7) DUP | (8-9) 08 | (10-13) PWS BEGIN DATE | (14-19) LAST SURVEY DATE | (20-31) COMPLIANCE CYCLE | (32) ACTIVITY INDICATOR | (33-38) DEACTIVATION DATE | (39) DEACTIVATION REASON | (40-41) MANUAL FILE SEP.

(1-7) DUP | (8-9) 09 | (10-11) STATE FEDERAL CODE | (12) SEQUENCE | (13-14) STATE REGION | (15-16) STATE DISTRICT | (17) DATA FLAG | (18) MONITOR REGION | (19-21) NUMBER OF SAMPLES | (22-25) NCDH NITRATE MRDL | (26-29) NCDH NITRATE MCL | (30) DATA CHECK | (31-33) NCDH TRIHALOMETHANE MRDL | (34) HCL DATA CO SAMPLE | (35-36) % CHLORINE | (37) TURBIDITY FLAG | (38-39) TURBIDITY UNITS

(1-7) DUP | (8-9) 10 | (10) CONTAMINANT OCCURRENCE 1 | (11-14) CHEMICAL CONTAMINANT ID | (15-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 10 | (10) CONTAMINANT OCCURRENCE 2 | (11-14) CHEMICAL CONTAMINANT ID | (15-17) MONITORING FREQUENCY

(1-7) DUP | (8-9) 10 | (10) CONTAMINANT OCCURRENCE 3 | (11-14) CHEMICAL CONTAMINANT ID | (15-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 10 | (10) CONTAMINANT OCCURRENCE 4 | (11-14) CHEMICAL CONTAMINANT ID | (15-17) MONITORING FREQUENCY

(1-7) DUP | (8-9) 11 | (10-13) BEGIN PERIOD | (14-17) END PERIOD | (18) MONITOR GROUND WATER | (19-21) AVERAGE AIR TEMP | (22-25) NCDH NITRATE MRDL | (26) RADIOACTIVE FLAG | (27) RADIOACTIVE MONITORING | (28-29) BETA MRDL MTMG | (30) NUCLEAR FACILITY | (31) FIRST NUCLEAR FAC TYPE | (32) SECOND NUCLEAR FAC TYPE

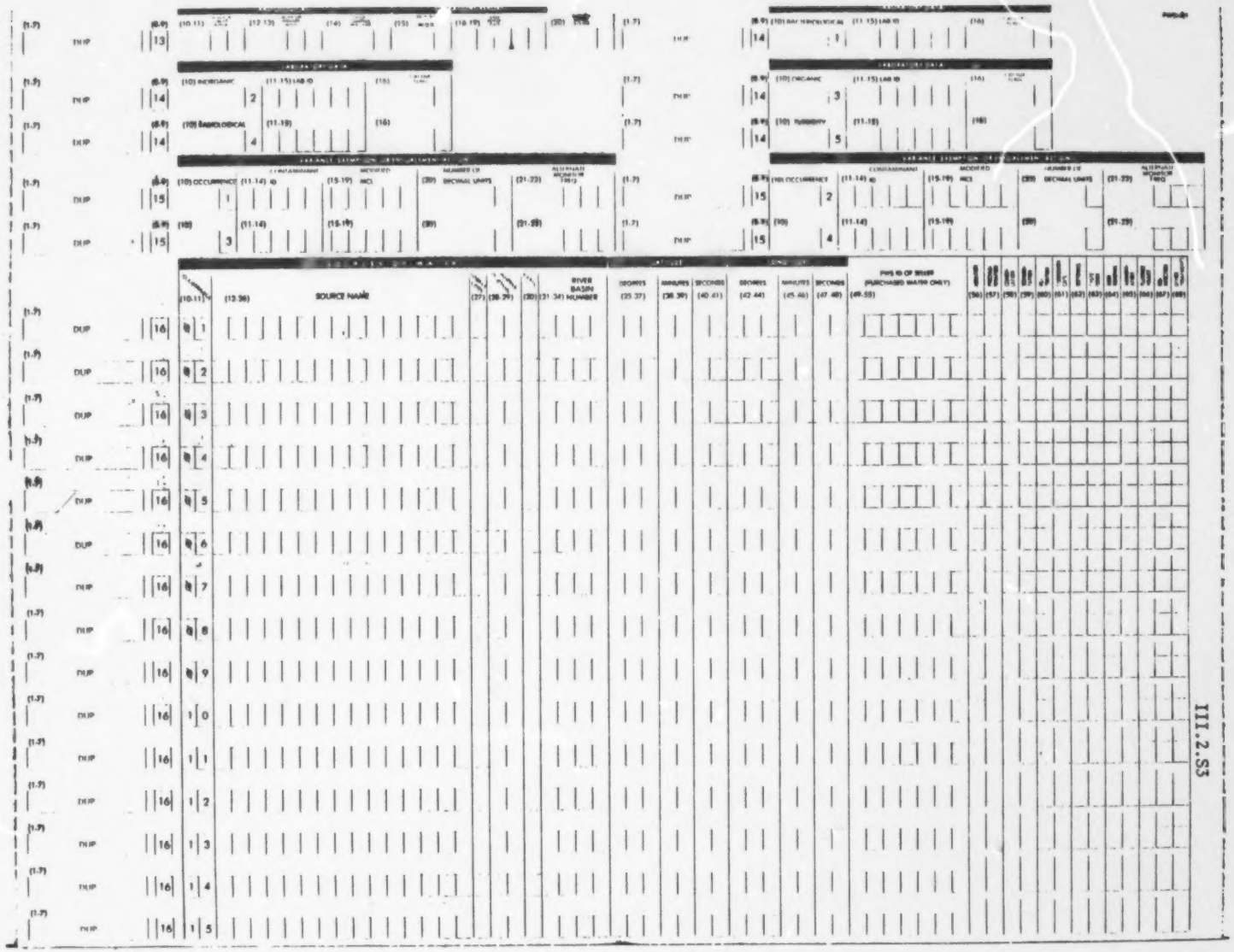
(1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 1 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 2 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY

(1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 3 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 4 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY

(1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 5 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 6 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY

(1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 7 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 8 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY

(1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 9 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY | (1-7) DUP | (8-9) 12 | (10-11) CONTAMINANT OCCURRENCE 10 | (12-15) RADIONUCLIDE CONTAMINANT ID | (16-17) MONITORING FREQUENCY



III.2.S3

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PWS1010 PWS1.114

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

RECORD STATUS AND DELETION FORM

PWS-ID (1-7)	CARD CODE (8-9)	CARD CODES:	Y (10)
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	
		98 = PRODUCE STATUS RECORD 99 = DELETE PWF RECORD	

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S4

VAEX010 VAEX.100

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

RECORD CREATION AND MAINTENANCE FORM

V&E IDENTIFICATION [| | | |] 1 - 5
CARD CODE [0|0] 6-7
RECORD CREATION [ ] 8
ENTER A 'Y' IF CREATING A NEW RECORD
ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED

DUP 1 - 5
CARD CODE [0|1] 6-7
PWS ID 8 - 14
V/E 15
V&E REFERENCE 16 - 20
EFFECTIVE DATE M D Y 21 - 26
EXPIRATION DATE M D Y 27 - 32
REASON 33-34

STATUS 35
CONTAMINANT ID 36 - 39
MCL 40 - 44
DEC 45
TREATMENT 46-48
ALTERNATE TREATMENT 49-51
MODIFIED FREQUENCY 52-54

CASE ABSTRACT

DUP 1 - 5 [0|2]
. [0|3]
. [0|4]
. [0|5]
. [0|6]
. [0|7]
. [0|8]
. [0|9]
6-7 8 - 37

PREPARED BY ____________________ DATE ___/___/___

APPROVED BY ____________________ DATE ___/___/___

III.2.S5

VAEX010

MODEL STATE INFORMATION SYSTEM

VAEX.107

VARIANCES AND EXEMPTIONS SUBSYSTEM

RECORD CREATION AND MAINTENANCE FORM

V&E IDENTIFICATION	CARD CODE	CASE ABSTRACT - CON'T
	10	
	11	
	12	
	13	
DUP 1 - 5	14	
	15	
	16	
	17	
	6-7	8-37

V&E IDENTIFICATION	CARD CODE	RECORD DELETION	
	99		ENTER A 'Y' IF DELETING A RECORD ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED
1 - 5	6-7	8	

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S6

VAEX010 VAEX.101

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

RECORD CREATION AND MAINTENANCE FORM

V&E IDENTIFICATION	CARD CODE	TARGET DATE M D Y	MILESTONE CODE	REPORTING FREQUENCY FOR REPEATING MILESTONES - MONTHS
1-5	6-7	8-13	14-15	16-17

				MILESTONE DESCRIPTION
OVP 1 - 5	21	OVP 8 - 15		
.	22	.		
.	23	.		
.	24	.		
	6-7			16-45

DATE/DELAY/DELETION REPORTING

V&E IDENTIFICATION	CARD CODE	TARGET DATE M D Y	MILESTONE CODE	DATE ATTAINED M D Y	DELAY/DELETION CODE
1-5	6-7	8-13	14-15	16-21	22

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.2.S7

ENAC010

MODEL STATE INFORMATION SYSTEM
ENFORCEMENT ACTIONS SUBSYSTEM

ENAC.101

RECORD CREATION AND MAINTENANCE FORM

CASE/ACTION IDENTIFICATION [ ][ ][ ][ ][ ] 1-5

CARD CODE [0][0] 6-7

RECORD CREATION [ ] 8
ENTER A 'Y' IF CREATING A NEW RECORD.
ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED.

DUP 1-5 [0][1] 6-7

CASE STATUS [ ] 8
1 = CASE OPEN
2 = CASE CLOSED

CASE REFERENCE [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] 9 - 20

CASE NAME [ ] 21-50

ACTION DATE M D Y [ ][ ][ ][ ][ ][ ] 51-56

LEGAL STATUS CODE [ ] 57

PWS-ID [ ][ ][ ][ ][ ][ ][ ] 58-64

STATE CODE [ ][ ] 65-66

DUP 1-5 [0][2] 6-7

PLAINTIFF TYPE [ ] 8

PLAINTIFF NAME [ ] 9-38

DEFENDANT TYPE [ ] 39

DEFENDANT NAME [ ] 40-69

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S8

ENAC010

MODEL STATE INFORMATION SYSTEM
ENFORCEMENT ACTIONS SUBSYSTEM

ENAC.102

RECORD CREATION AND MAINTENANCE FORM

VIOLATION INFORMATION

CASE/ACTION IDENTIFICATION	CARD CODE	CODE	DATE	CONTAMINANT ID	DELETE CODE
1-5	03 (6-7)	(8)	(9-14)	(15-18)	(19)
.	03				
.	03				
.	03				
.	03				
DUP 1-5	03				
.	03				
.	03				
.	03				
.	03				

Y = YES, DELETE THIS VIOLATION

CONSENT ORDER AND PERMIT INFORMATION

		CONSENT ORDER NUMBER	CONSENT ORDER DATE M D Y	PERMIT NUMBER	PERMIT DATE M D Y
DUP 1-5	04 (6-7)	(8-14)	(15-20)	(21-27)	(28-33)

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S9

ENAC010

MODEL STATE INFORMATION SYSTEM
ENFORCEMENT ACTIONS SUBSYSTEM

ENAC.103

RECORD CREATION AND MAINTENANCE FORM

CASE/ACTION IDENTIFICATION	CARD CODE	CASE ABSTRACT
1-5	6-7	8-37
	05	
.	06	
.	07	
.	08	
.	09	
DUP 1-5	10	
.	11	
.	12	
.	13	
.	14	

III.2.S10

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

ENAC010

MODEL STATE INFORMATION SYSTEM
ENFORCEMENT ACTIONS SUBSYSTEM

ENAC.104

RECORD CREATION AND MAINTENANCE FORM

MILESTONE INFORMATION

CASE/ACTION IDENTIFICATION	CARD CODE	MILESTONE CODE	TARGET DATE M D Y	ATTAINED DATE M D Y	DELETE CODE
1-5	6-7	8-9	10-15	16-21	22
	15				
	15				
	15				
	15				
	15				
	15				
DUP 1-5	15				
	15				
	15				
	15				
	15				
	15				
	15				
	15				

Y = YES, DELETE THIS MILESTONE

CASE HISTORY REQUEST

1-5	6-7	8
	98	

Y = YES, SELECT THIS RECORD FOR CASE HISTORY
ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED.

RECORD DELETION REQUEST

1-5	6-7	8
	99	

Y = YES, DELETE THIS RECORD
ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.2.S11

WAQC120 WAQC.136

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

VIOLATIONS FILE

RECORD CREATION AND MAINTENANCE FORM

VIOLATION IDENTIFICATION	CARD CODE	RECORD CREATION
1-5	6-7	8
	0 0	

ENTER A 'Y' IF CREATING A NEW RECORD
ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED

	CARD CODE	PWS ID	REGULATION LEVEL	CONTAMINANT ID	LAB ID	SAMPLE DATE M D Y
	6-7	8-14	15-16	17-20	21-25	26-31
DUP 1-5	0 1					

SAMPLES		ANALYSIS				SAMPLING CUT-OFF DATE M D Y
NUMBER REQUIRED	NUMBER TAKEN	METHOD	RESULT	DECIMALS	DATE M D Y	
32-35	36-39	40-42	43-47	48	49-54	55-60

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S12

WAQC120

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.137

VIOLATIONS FILE

RECORD CREATION AND MAINTENANCE FORM

VIOLATION IDENTIFICATION	CARD CODE	VIOLATION TYPE	VIOLATION DATE M D Y	MCL VIOLATED	MCL VIOLATED DECIMALS	SAMPLING FREQUENCY VIOLATED	NUMBER SAMPLES VIOLATED	VIOLATION DURATION
1-5	6-7 (0 2)	8-9	10-15	16-20	21	22-24	25-28	29-30

NOTIFY PUBLIC	NOTIFY STATE	SAMPLE TYPE	SAMPLE KEY	DATE LAST REPORT M D Y
31	32	33	34-43	44-49

TIME SINCE LAST REPORT	REMARKS
50-51	52-76

VIOLATION IDENTIFICATION	CARD CODE	RECORD DELETION
1-5	6-7 (9 9)	8

ENTER A 'Y' IF DELETING A RECORD
ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S13

OPER010 OPER.100

MODEL STATE INFORMATION SYSTEM
OPERATOR AND MAILING SUBSYSTEM

RECORD CREATION AND MAINTENANCE FORM

O&M IDENTIFICATION (1 - 5)	CARD CODE (6-7)	RECORD CREATION (8)	
00001	00	Y	ENTER A 'Y' IF CREATING A NEW RECORD ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED

	CARD CODE (6-7)	O&M TYPE (8)	NAME (9-38)
DUP 1 - 5	01	1	CINCINNATI WATER WORKS

	STREET ADDRESS (39-68)
	PO BOX 13

	CARD CODE (6-7)	CITY (8-37)
DUP 1 - 5	02	CINCINNATI

STATE (38-39)	ZIPCODE (40 - 44)	AREA CODE (45-47)	PHONE NUMBER (48 - 54)
OH	45230	513	5559999

	CARD CODE (6-7)	CERTIFICATE NUMBER (8 - 14)	PWS ID (15 - 21)	OPERATOR CLASS A (22)	B (23)	C (24)	D (25)	E (26)	F (27)	CERTIFICATE RENEWAL DATE M D Y (28 - 33)
DUP 1 - 5	03		0000001							

O&M IDENTIFICATION (1 - 5)	CARD CODE (6-7)	RECORD DELETION (8)	
	99		ENTER A 'Y' IF DELETING A RECORD ONLY PUNCH THIS CARD IF A 'Y' IS ENTERED

PREPARED BY J Smith DATE 6/23/77

APPROVED BY _____ DATE __/__/__

WAQC010 WAQC.100

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM
CHEMICAL OR RADIOLOGICAL ANALYSIS INPUT FORM

PWS ID (1 - 7)

TRANSACTION CODE (8-9): 0 3

PUBLIC WATER SYSTEM NAME AND ADDRESS

DUP 1-9	CONTAMINANT ID (10-19)	CONTAMINANT NAME	ANALYSIS METHOD (16-18)	ANALYSIS RESULT (17-20)	ANALYSIS DECIMALS (21)	ANALYSIS DATE M D Y (22-27)	DUP 28-46 (BELOW)	SAMPLE ANALYZED BY:

LOCATION CODE (28-30) NAME

SAMPLE DATE M D Y (31-36)

SAMPLE TYPE (37)

SAMPLE TIME (38-41)

LAB ID (42-46)

LAB NAME

SAMPLE COLLECTED BY:

SAMPLE TYPE KEY
C - CHECK SAMPLE
D - REGULAR DISTRIBUTION SAMPLE
P - PLANT TAP SAMPLE
R - RAW WATER SAMPLE
S - SPECIAL SAMPLE

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.2.S15

WAQC010 WAQC.100

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM
CHEMICAL OR RADIOLOGICAL ANALYSIS INPUT FORM

PWS ID: 0000001 (1 - 7)

TRANSACTION CODE: 03 (8-9)

PUBLIC WATER SYSTEM NAME AND ADDRESS:
Cincinnati Water Works
PO Box 13
Cincinnati

OH 45230

DUP 1-8	CONTAMINANT ID (10-15)	CONTAMINANT NAME	ANALYSIS METHOD (16-18)	ANALYSIS RESULT (17-20)	ANALYSIS DECIMALS (21)	ANALYSIS DATE M D Y (22-27)	DUP 28-46 (BELOW)	SAMPLE ANALYZED BY:
	1006	Arsenic	101	0020	3	070177		B. Jones
	1010	Barium	101	0500	3	070177		
	1015	Cadmium	101	0005	3	070177		
	1020	Chromium	101	0020	3	070177		
	1025	Fluoride	107	1000	3	070177		
	1030	Lead	101	0020	3	070177		
	1035	Mercury	103	0001	3	070177		
	1040	Nitrate	106	4000	3	070177		
	1045	Selenium	101	0004	3	070177		
	1050	Silver	101	0030	3	070177		

LOCATION CODE (28-30): | | |

LOCATION NAME:

SAMPLE DATE M D Y (31-36): 062577

SAMPLE TYPE (37): 0

SAMPLE TIME (38-41): 0200

LAB ID (42-46): 00001

LAB NAME: Virginia

SAMPLE COLLECTED BY: Q. Public

SAMPLE TYPE KEY
C - CHECK SAMPLE
D - REGULAR DISTRIBUTION SAMPLE
P - PLANT TAP SAMPLE
R - RAW WATER SAMPLE
S - SPECIAL SAMPLE

PREPARED BY: J. Smith DATE: 7/15/77

APPROVED BY: _____ DATE: __/__/__

WAQC010

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.107

BACTERIOLOGICAL OR TURBIDITY ANALYSIS INPUT FORM

PWS ID (1 - 7)

TRANSACTION CODE (8-9): 0 S

PUBLIC WATER SYSTEM NAME AND ADDRESS

CONTAMINANT ID (10-13)

CONTAMINANT NAME

DUP 1-13	METHOD (14-16)	ANALYSIS RESULT (17-20)	DECIMALS (21)	ANALYSIS DATE M D Y (22-27)	LOCATION CODE (28-30)	LOCATION NAME	SAMPLE DATE M D Y (31-36)	SAMPLE TYPE (37)	SAMPLE TIME (38-41)	DUP 42-46 (BELOW)	SAMPLE COLLECTED BY	SAMPLE ANALYZED BY

LAB ID (42-46)

LAB NAME

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

C - CHECK SAMPLE
D - REGULAR DISTRIBUTION SAMPLE
P - PLANT TAP SAMPLE
R - RAW WATER SAMPLE
S - SPECIAL SAMPLE

III.2.S17

WAQC010

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.108

BACTERIOLOGICAL OR TURBIDITY SUMMARY ANALYSIS INPUT FORM

PWS ID (1 - 7)

TRANSACTION CODE (8-9): 0 7

PUBLIC WATER SYSTEM NAME AND ADDRESS

CONTAMINANT ID (10 - 13)

CONTAMINANT NAME

ANALYSIS METHOD (14-16)

NUMBER OF SAMPLES REQUIRED (17-19)

NUMBER OF SAMPLES TAKEN (20-22)

SAMPLE ANALYSIS RESULTS

HIGHEST (23-26) DEC. (27)

LOWEST (28-31) DEC. (32)

AVERAGE (33-36) DEC. (37)

NUMBER OF SAMPLES IN VIOLATION

FEDERAL MCL (38-41)

STATE MCL (42-45)

LONGEST VIOLATION DURATION (46-48)

SAMPLE PERIOD

START M D Y (49-54)

END M D Y (55-60)

SAMPLE TYPE (61)

DATE OF LAST SAMPLE M D Y (62-67)

LABORATORY ID (68-72)

ANALYZING THE MOST SAMPLES NAME

CHECK SAMPLES

REGULATIONS REQUIRED NUMBER TAKEN

FEDERAL (73)

STATE (74)

ACTUAL NUMBER TAKEN (75-77)

NOTIFIED OF VIOLATIONS

PUBLIC (78)

STATE (79)

PREPARED BY _____ DATE ___/___/ _

APPROVED BY _____ DATE ___/___/___

SAMPLE TYPE KEY
C - CHECK SAMPLE
D - REGULAR DISTRIBUTION SYSTEM
P - PLANT TAP SAMPLE
R - RAW WATER SAMPLE
S - SPECIAL SAMPLE

III.2.S18

WAQC010 WAQC.105

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

SAMPLE DELETION TRANSACTIONS - PERIODIC SAMPLE FILE

PWS ID	CARD CODE	CONTAMINANT ID	CONTAMINANT NAME	ANALYSIS METHOD	SAMPLE KEY
1-7	8-9	10-13		14-16	17-26
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.2.S19

WAQC010 WAQC.105

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM
SAMPLE DELETION TRANSACTIONS - PERIODIC SAMPLE FILE

PWS ID 1-7	CARD CODE 8-9	CONTAMINANT ID 10-13	CONTAMINANT NAME	ANALYSIS METHOD 14-16	SAMPLE KEY 17-26
0000001	01	1005	Arsenic	101	7719600000
	01				
	01				
	01				
	01				
	01				
	01				
	01				
	01				

PREPARED BY J Smith DATE 7/17/77

APPROVED BY _____ DATE __/__/__

III.2.S20

WAQC020

MODEL STATE INFORMATION SYSTEM

WAQC.110

WATER QUALITY COMPLIANCE SUBSYSTEM

SAMPLE DELETION TRANSACTIONS - SAMPLE ANALYSIS FILE

PWS ID 1-7	CARD CODE 8-9	CONTAMINANT ID 10-13	CONTAMINANT NAME	ANALYSIS METHOD 14-16	SAMPLE KEY 17-26
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				
	0 1				

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.2.S21

Processing Option Input Forms

1. Identify each of the processing option input forms shown.

   1. _____

   2. _____

   3. _____

   4. _____

MODEL STATE INFORMATION SYSTEM
OPERATOR AND MAILING SUBSYSTEM

SELECTION FORM - DEFINITION OF LOGIC FOR SELECTION

RELATION SYMBOLS: LT = LESS THAN
EQ = EQUAL
GT = GREATER THAN
NL = NOT LESS THAN
NG = NOT GREATER THAN
NX = NOT EXISTS (EMPTY)

CARD ID	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL	DATA ELEMENT LOGIC ID NO.	RELATION SYMBOL
S E L 2 (1-4)	01	5-6	02	7-8	03	9-10	04	11-12
	05	13-14	06	15-16	07	17-18	08	19-20
	09	21-22	10	23-24	11	25-26	12	27-28
	13	29-30	14	31-32	15	33-34	16	35-36
	17	37-38	18	39-40	19	41-42	20	43-44
	21	45-46	22	47-48	23	49-50	24	51-52
	25	53-54	26	55-56	27	57-58	28	59-60
	29	61-62	30	63-64	31	65-66	32	67-68
	33	69-70	34	71-72	35	73-74		

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.1.E1

OPER010 OPER.101

MODEL STATE INFORMATION SYSTEM
OPERATOR AND MAILING SUBSYSTEM

PROCESSING OPTIONS FOR JOB _____ _____

CARD ID [P][A][O][C] 1-4

DATE M D Y [ ][ ][ ][ ][ ][ ] 5-10

STANDARD ERROR PROCESSING OPTIONS: [ ] 11
Y = YES - CREATE A SPECIAL OUTPUT FILE OF ERROR RECORDS
N = NO - DO NOT CREATE A SPECIAL OUTPUT FILE

[ ] 12
Y = YES - PRINT ONLY THE DATA ELEMENT FIELDS WHICH WERE IN ERROR - NOT THE ENTIRE RECORD
N = NO

STANDARD HISTORY PROCESSING OPTION: [ ] 13

SELECT THE CODE FOR THE TYPE OF HISTORY REPORT TO BE PRINTED
1 = ONLY NEW STANDARD HISTORY FILE RECORDS
2 = ALL THE STANDARD HISTORY FILE RECORDS WHICH WERE EVER CREATED FROM THIS SUBSYSTEM
3 = THE ENTIRE STANDARD HISTORY FILE
4 - DO NOT PRINT A REPORT

III.1.E1

2

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

OPER020

MODEL STATE INFORMATION SYSTEM
OPERATOR AND MAILING SUBSYSTEM

OPER.104

SELECTION FORM - DEFINITION OF DATA ELEMENTS

CARD ID	DATA ELEMENT MNEMONIC NAME	DATA ELEMENT COMPARATIVE VALUE	DATA ELEMENT LOGIC ID NO.
S E L 1			
1-4	5-14	15-29	30-31
DUP 1 - 4			
.			
.			
.			
.			
.			
.			
.			
.			
.			
.			
.			
.			

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.1.E1

OPER020

MODEL STATE INFORMATION SYSTEM
OPERATOR AND MAILING SUBSYSTEM

OPER.103

SORT OPTIONS FOR JOB _____

CARD ID	SORT SEQUENCE	MNEMONIC NAME OF DATA ELEMENT	SORT MODE	
S O R T 1-4	5-6	7-16	17	A=ASCENDING D=DESCENDING
	18-19	20-29	30	A=ASCENDING D=DESCENDING
	31-32	33-42	43	A=ASCENDING D=DESCENDING
	44-45	46-55	56	A=ASCENDING D=DESCENDING
	57-58	59-68	69	A=ASCENDING D=DESCENDING

4

III.1.E1

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

Processing Option Input Forms

1. Match each function with the appropriate processing option input form.

1. SEL2 _____	a. Used to specify a desired sequence of records.
2. PROC _____	b. Used to specify the logic for selection.
3. SEL1 _____	c. Used to initiate a program and specify the date of the report.
4. SORT _____	d. Used to define data elements for selection of records.

Table Creation (MSIS)

1. State the purpose of the Error Message Table Input Form. _____

_____

_____

Circle the best valid entries.

A. AAA INVALID-RECORD-ID
B. 001 REJECT-INVALID RECORD-ID
C. 011 REJECTED
D. 107 WARNING-DATA ELEMENT MISSING

Estimate the frequency of use, by circling one of the following.

Often Occasionally Seldom Never

2. State the purpose of the Data Element Table Input Form. _____

_____

_____

Circle the letter of the group of the best valid entries.

A.	LB	319	96	0096	81	81	LB-ID	N
B.	OM	490	22	0133	06	01	TRANSACTION	Y
C.	PH	310	00	0001	00	07	PH-PWS-ID	Y
D.	NO	310	91	0091	01	01	PW-ID	N

Estimate the frequency of use by circling one of the following:

Often Occasionally Seldom Never

3. State the purpose of the Code Value Table Input Form. _____

_____

_____

Circle the letter of the group of best valid entries.

A.	LB	809	001	3	NEPHELOMETRIC
B.	02	321	P	1	PUBLIC WATER SUPPLY
C.	MS	ABC	0100	4	TURBIDITY
D.	OM	479	1	2	PUBLIC WATER SYSTEM - COM

Estimate the frequency of use by circling one of the following.

Often Occasionally Seldom Never

MSI5030 MODEL STATE INFORMATION SYSTEM MSI9.104

STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE INPUT FORM

CARD ID	FILE ID	D.E. CATALOGUE NUMBER	START POSITION TRANSACTION / FILE		D.E. LENGTH	D.E. INPUT LENGTH	MNEMONIC NAME	HISTORY KEPT
3								Y=YES N=NO
1	2-3	4-6	7-8	9-12	13-14	15-16	17-26	27
DUP 1								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO
.								Y=YES N=NO

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.E3

MSI3030 MODEL STATE INFORMATION SYSTEM MSI3.102

STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE INPUT FORM

CARD ID	FILE ID	ERROR CODE	ERROR MESSAGE
I	MS		
1	2-3	4-6	7-34
		35-37	38-65
DUP 1-3		4-6	7-34
		35-37	38-65
DUP 1-3		4-6	7-34
		35-37	38-65
DUP 1-3		4-6	7-34
		35-37	38-65
DUP 1-3		4-6	7-34
		35-37	38-65

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.E3

MSI5030

MODEL STATE INFORMATION SYSTEM

MSIS.103

STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE INPUT FORM

CARD ID	FILE ID	D.E. CATALOGUE NUMBER	D.E. VALUE	D.E. LENGTH	D.E. DESCRIPTION
2					
1	2-3	4-6	7-15	16	17-46
UUP 1-3					
.					
.					
.					
.					
.					
.					
.					
.					
.					
.					

PREPARED BY _____ DATE __/__/__

APPROVED BY _____ DATE __/__/__

III.1.E3

Table Creation (WAQC)

WAQC.101 & WAQC.102

1. State the purpose of the Laboratory Table Input Forms. _____

_____

_____

Circle the letter of the group of best valid entries on WAQC.101.

A.	00001	A	LAB OF DENVER	006178
B.	A1234	0	OHIO STATE LAB	062478
C.	16891	B	COMMONWEALTH OF VIRGINIA STATE LAB	07/01/79
D.	1256	1	OTHER	121578

Circle the letter of the group of best valid entries on WAQC.102.

A.	00001	5	111
B.	A268	4	689
C.	10006	0	26
D.	10001	1	001

Estimate the frequency of use by circling one of the following.

Often Occasionally Seldom Never

WAQC210

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.101

PAGE 1

LABORATORY TABLE INPUT FORM

LAB ID [ ][ ][ ][ ] 1-5

[9] 6

OWNER TYPE [ ] 7

LABORATORY NAME [ ] 8 - 37

EXPIRATION DATE

M D Y

[ ][ ][ ][ ][ ][ ] 38-43

CARD CODE: [L][1] 79-80

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.1.E4

WAQC210

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC.102

LABORATORY TABLE INPUT FORM

LAB ID	CONTAMINANT GROUP	AUTHORIZED ANALYSIS METHOD CODES									
1-5	6	7-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	31-33	34-36
		37-39	40-42	43-45	46-48	49-51	52-54	55-57	58-60	61-63	64-66
		67-69	70-72	73-75	76-78						

CONTAMINANT GROUP CODES
0 - TURBIDITY
1 - INORGANIC CHEMICALS
2 - ORGANIC CHEMICALS
3 - MICROBIOLOGICAL
4 - RADIONUCLIDE
8 - OTHER

CARD CODE: L 2
79-80

PREPARED BY _____ DATE ___/___/___

APPROVED BY _____ DATE ___/___/___

III.1.E4

Table Creation (REGS)

1. Name the five Regulations File input forms for contaminants.

_____

_____

_____

_____

_____

2. Name the three other Regulations File input forms designed for special conditions of certain contaminants. _____

_____

_____

3. Estimate the frequency of use of the Regulations File input forms by circling one of the following.

Often Occasionally Seldom Never

Table Creation (REGS)

1. Specify the purpose of the Regulations File input forms for contaminants. _____

_____

_____

_____

2. Explain the purpose of the Regulations File input forms for special conditions. _____

_____

_____

_____

_____

_____

_____

_____

Record Creation and Maintenance Forms

1. Identify the five Record Creation and Maintenance Forms by the subsystem in which they are used.

_____

_____

_____

_____

_____

2. List the three basic sections of the Record Creation and Maintenance Forms by the function to be performed.

_____

_____

_____

3. What is the common characteristic of all Record Creation and Maintenance Forms and why?

_____

_____

_____

Water Quality Transactions Input Forms

1. Identify the five Water Quality Transactions input forms.

_____

_____

_____

_____

_____

2. List the two basic types of Water Quality Transactions input forms by the function they perform. _____

_____

3. How do the functions of the Water Quality Transactions input forms differ from those for the Record Creation and Maintenance forms?

_____

_____

_____

4. Why is summary information allowed for Bacteriological and Turbidity analysis data? _____

_____

_____

_____

POST-TEST

DATA ENTRY

Name: _____ (5-30) Postal Code ____ (31-2) Date ____/____/____ Month Day Year (33-8)

1. Match the following functions with their appropriate subsystems:

Subsystem		Function
a. Regulations	(39)	____Maintains information on PWS's that have special conditions
b. Enforcement Actions		
c. Water Quality Compliance	(40)	____Does the checking on the analyses of water quality
d. Variances & Exemptions		
e. Standard Processing	(41)	____Maintains information on the activities ensuring compliance
	(42)	____Gives the computer information to determine violations
	(43)	____Performs common functions among subsystems

2. Match the types of input forms with their function:

Form		Function
a. Processing option	(44)	____Enters PWS-related data to files
b. Table creation	(45)	____Enters data to MSIS tables
c. Record creation & maintenance	(46)	____Enters sample and analysis data
d. Water quality transactions	(47)	____Enables the user to specify a needed PWS listing
	(48)	____Enables the user to specify needed reports

3. Circle the abbreviations for the 5 subsystems which have Record creation and maintenance input forms:

(49) a. BIPS	(53) e. FEDR	(57) i. SRVY
(50) b. WAQC	(54) f. VAEX	(58) j. MSIS
(51) c. OPER	(55) g. REGS	(59) k. PWSI
(52) d. LIMT	(56) h. ENAC	(60) l. QUAL

4. Circle T (True) or F (False) for each of the following statements:

T F (61) "SORT" is a processing option input form used to specify desired sequence of records for output.

T F (62) "SEL2" is a processing option input form used to initiate a program.

T F (63) "SEL1" is the processing option input form used to select records from MSIS files.

T F (64) A program run cannot be initiated without using a "PROC" form.

T F (65) The Laboratory input form is seldom used because the laboratory table is supplied by MSIS.

T F (66) A State used the Code Value Table input form to enter its own acceptable data element values.

T F (67) The Data Element Table input form is used to enter a detailed description of information about a data element.

T F (68) A Record Creation and Maintenance input form is used to change PWS data.

T F (69) Water Quality Transactions input forms are used either to add or to delete sample and analysis data.

T F (70) The records on the Periodic Sample File and Sample Analysis File can be changed without deleting the entire record.

5. The Data Element Table input form <u>cannot</u> be used to identify which of the following:

(71) a. Which file used in
(72) b. New error code
(73) c. Name for field
(74) d. New catalogue number

6. Check the Water Quality Transaction input forms:

(75) a. ____ Bacteriological or Turbidity Analysis
(76) b. ____ Inorganic Chemical Contaminant
(77) c. ____ Chemical or Radiological Analysis
(78) d. ____ Sample Deletion Transactions
(79) e. ____ Physical Contaminant Summary

7. Rate your current level of knowledge about MSIS: (Circle one)

(80)None (81)A little (82)Some (83)Quite a bit (84)A great deal

GLOSSARY

Terms are included in this glossary only if their meanings differ from those found in a standard English language dictionary.

Analysis:

The separation of any abstract entity or material into its constituant elements, such as chemical-intentionally produced decomposition or separation of materials into their ingredients to find their kind or quality.

Analysis Method:

The method or technique utilized to obtain analysis results.

Analytical Techniques:

The methods used to determine the components of a substance, especially raw water.

Batch Processing:

A procedure in which a number of transactions, for example on keypunched cards, are accumulated before being processed together.

Check Sampling:

The act of acquiring additional quantities of water for analysis over and above the regular samples due to the suspicion of violating maximum contaminant levels.

Code:

A system used for brevity of communication in which arbitrarily chosen words, letters, or symbols are assigned definite meanings.

Computer:

A machine which accepts input data, processes it, and gives output data.

Computer Program:

A sequence of computer-readable instructions used in conjunction with appropriate data to perform specified logical tasks.

Correction:

Additions, subtractions, or changes to a computer file.

Course:

All content taught in one individual MSIS training program volume. A course is subdivided into units.

Data:

Raw facts or statistics which alone have little or no meaning, but as a group allow some meaningful relationships to be drawn.

Data Element:

An identifiable item of information within a record. See the Data Element Dictionary for all data elements used in MSIS.

Data Processing:

The act of manipulating information to obtain a desired result, especially with the use of a computer.

Economical:

Of or pertaining to the financial reasons for granting variances and exemptions.

Enforcement:

The act of creating and maintaining compliance using coercive methods.

Enforcement Action:

An act intended to generate compliance.

Exemption:

Authorized waiver of an MCL requirement due to compelling factors, such as need for a PWS to design and build effective treatment facilities.

Field:

See data element.

File:

A collection of records systematically arranged to facilitate quick reference; may be stored on magnetic tape or magnetic disc.

Goal:

A general achievement toward which effort is directed.

Gross Alpha:

A group of substances which emit Alpha particle radiation.

Gross Beta:

A group of substances which emit Beta particle radiation.

Hardware:

The physical equipment in a data processing system (contrasted with software).

Information:

Data that has been processed to obtain specific results which increase knowledge of the recipient and is used as the basis for decision making.

Inorganic:

Of or pertaining to substances that are not hydrocarbons or their derivatives.

Input:

Information which is specially prepared for acceptance by computer programs. Usually written down on special forms, then put into machine-readable form by, for example, keypunching.

Integrity:

Presumed reliability of data.

Internal:

Data processing occurring within the computer automatically according to instructions from computer programs.

Inventory:

A detailed, descriptive list, for example, of Public Water Systems.

Magnetic Disc:

A device which stores data on the magnetizable surfaces of one or more rotating discs, which look like a stack of phonograph records.

Magnetic tape:

A device which stores data on the magnetizable surface of a long strip of tape (the tape is typically 1 inch wide and 2400 feet long).

Maintain:

Actions taken to ensure up-to-date computer files.

Management Information System:

An organized method of maintaining facts pertinent to the governing of the operations of an organization.

Model State Information System:

(MSIS) a batch computer system designed to (1) maintain records on public water systems and the quality of the water they supply, and (2) prepare reports.

Monitor:

The acts of (1) a PWS observing and checking water quality or (2) a State observing and checking PWSs.

National Inventory File:

A computerized list of many public water systems in the United States; previously used to monitor water quality.

Objective:

A specific achievement that efforts are intended to attain.

Online Processing:

A procedure for inputting data computer whenever needed for immediate data processing, often by typewriter terminal.

Operator:

One who runs a public water system.

Organic:

Of or pertaining to substances that are hydrocarbons or their derivatives.

Output:

Any information passed from the computer.

Primacy:

Primary enforcement responsibility for carrying out the Safe Drinking Water Act of 1974.

Public Water System (PWS):

A set of components for the provision of piped water to persons for human consumption, if such facility has at least fifteen service connections or regularly serves at least twenty-five individuals 60 or more days per year.

Purge:

To remove from a computer those items no longer desired.

Raw Water:

Water at the source before any treatment.

Record:

A logical group of data elements.

Regulations:

Rules created by EPA within the guidelines established by the SDWA and having the same authority.

Report:

Information formatted by the computer in either human-readable form (such as a printed report) or machine-readable form (such as a magnetic tape).

Sample:

A portion of the whole to represent the whole, especially water.

Sanitary Survey:

An on-site review of the water source, facilities, equipment, operation, and maintenance of a public water system for the purpose of evaluating the adequacy of such source for producing and distributing safe drinking water.

Selection Process:

The method used by MSIS for selecting information from a computer file for use in a report. Many different criteria can be used in the selection of the data.

Software:

The computer programs required for the computer to work.

Subsystem:

A subset of the MSIS computer system. There are nine MSIS subsystems.

System:

A method or methods of accomplishing a function or functions, especially with a computer.

Table:

A computer file of brief information usually set up in logical relationships to permit quick access, often on magnetic disc.

Turnaround Document:

A form containing computer-printed information which needs additional information written on it; called "turnaround" since it is both an output and an input.

Unit:

A subset of teaching material within a course.

Variance:

Authorized deviation from an applicable national drinking water regulation because characteristics of the raw water source cannot be corrected by available means.

List of Abbreviations

Abbreviation	Meaning
BIP	Background Informational Package
CVT	Code Value Table
DET	Data Element Table
DVF	Deviations File
EAF	Enforcement Actions File
EMT	Error Message Table
ENAC	Enforcement Actions Subsystem
EPA	Environmental Protection Agency
FEDR	Federal Reporting Subsystem
LBT	Laboratory Table
MCL	Maximum Contaminant Level
MSIS	Model State Information System; also MSIS Standard Processing Subsystem
NIF	National Inventory File
NIPDWR	National Interim Primary Drinking Water Regulations
OMF	Operator and Mailing File
OPER	Operator and Mailing Subsystem
OWS	Office of Water Supply
PSF	Periodic Sample and Analysis File
PWF	Public Water System File
PWS	Public Water System
PWSI	Public Water System Inventory Subsystem
PWT	Public Water System Table
REGS	Regulations Subsystem

RGF	Regulations File
SAF	Sample and Analysis File
SDWA	Safe Drinking Water Act
SHF	MSIS Standard History File
SRVY	Sanitary Survey Subsystem
VAEX	Variances and Exemptions Subsystem
VEF	Variances and Exemptions File
VIF	Violations File
WAQC	Water Quality Compliance Subsystem

EXTRACTS FROM

MSIS DOCUMENTS

IX. Summary of Data Requested to be Reported to EPA

If any of the following data is missing or incorrect upon editing during the Data Entry and Update program of any subsystem, a Standard Warning Report will be printed noting the error.

A. Public Water Supply Inventory Data

Data Element COBOL Programming Name	Data Element Catalogue No.
PWF-ID	145
PWF-PLANT-OWNER-NAME	146
PWF-PLANT-STREET	147
PWF-PLANT-CITY	148
PWF-PLANT-STATE	149
PWF-PLANT-ZIP-CODE	150
PWF-PLANT-CONSECUTIVE-NUM-PWS	180
PWF-PLANT-INTERSTATE-CARRIER	181
PWF-PLANT-POPULATION-SERVED	183
PWF-PLANT-SERVICES-NUMBER	184
PWF-PLANT-AVERAGE-PRODUCTION	186
PWF-PLANT-DESIGN-CAPACITY	187
PWF-PLANT-ACTIVITY	194
PWF-PLANT-DEACTIVATION-DATE	195
PWF-PLANT-DEACTIVATION-REASON	196
PWF-STATE-POSTAL-CODE	198
PWF-STATE-REGULATED-BY	199
PWF-STATE-CHLORINE	210
PWF-STATE-TURBIDITY-UNITS	212
PWF-STATE-AIR-TEMPERATURE	217
PWF-STATE-RADIOACTIVE-FLAG	219
PWF-OWNER-TYPE	237
PWF-PLANT-SOURCE-NAME	243
PWF-PLANT-SOURCE-CODE	244
PWF-PLANT-SELLER-ID	250
PWF-PLANT-CONSEC-INDICATOR	701

B. Violation Data

Data Element COBOL Programming Name	Data Element Catalogue No.
VIF-PWS-ID	326
VIF-CONTAMINANT-ID	331
VIF-ANALYSIS-RESULT	339
VIF-VIOLATION-TYPE	343
VIF-VIOLATION-DATE	344
VIF-MCL-VIOLATED	345

C. Variance and Exemption Data

Data Element COBOL Programming Name	Data Element Catalogue No.
VEF-PWS-ID	457
VEF-VE-TYPE	458
VEF-CONTAMINANT-ID	462
VEF-MODIFIED-MCL	463

D. Enforcement Action Data

Data Element COBOL Programming Name	Data Element Catalogue No.
EAF-CASE-ID	430
EAF-ACTION-DATE	433
EAF-CLOSE-OPEN-INDIC	434
EAF-PLAINTIFF-TYPE	435
EAF-DEFENDANT-TYPE	437
EAF-PWS-ID	443
EAF-PWS-STATE	444
EAF-LEGAL-STATUS	449
EAF-LAST-UPDATE-DATE	450

Input Forms

Subsystem	Processing Options																	
	PROC. Prog.	No.	SORT Prog.	No.	SEL1 Prog.	No.	SEL2 Prog.	No.	Table Creation Prog.	No.	Record Creation Prog.	No.	Water Quality Prog.	No.	Scheduling Prog.	No.		
PSWI	010	111	030 - 080	100	020 & 080	107	020 & 080	108			010	114						
	020 - 050	113																
	060	110																
	070	106					RESTART											
	080	101					125											
	090	103																
	120 - 130	101																
WAQC	010 & 020	103	011	104	100 & 125	116	100 & 125	117	210	101	120	119	010	106	130	124		
	011 & 125	111	040 - 113	113						102		120		107				
	025	121												108				
	040	112												105				
	100	115										020		110				
	120	118																
	130	114																
	210	100																
	220	113																
REGS	010	199							010	101								
	020	109								102								
										103								
										104								
										105								
										106								
										107								
										108								
VAEX	010	102	040	103	040	105	040	106			010	100						
												101						
												107						
SRVY	010	100	010	101														
ENAC	010	100	020	106	020	107	020	108			010	101						
	020	105										102						
												103						
												104						
OPER	010	101	020	103	020	104	020	105			010	100						
	020	102																
MSIS	030 & 040	101	040	108	040	106	040	107	030	102								
	050	100								103								
										104								
FEDR	010	100																
TOTALS	32	26	22	7	8	6	8	6	3	13	5	11	2	5	1	1		

RGP Report Module
SouthWestern Ohio Regional Computer Center
EXHIBIT REGS.301

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS020
DATE XX/XX/XX

REGULATIONS REPORT - CHEMICAL CONTAMINANTS

PAGE 00009

CONTAMINANT ID	REGULATION/LEVEL	CHEMICAL NAME	REASON FOR MONITORING
9999	XX	XXXXXXXXXX	X

MCL UNITS	MCL	MCL DECIMALS	REASONABLE BOUNDS LOWER	DECIMALS	UPPER	DECIMALS	NUMBER OF CHECK SAMPLES REQUIRED IF REGULAR SAMPLE VIOLATES MCL
XXXXXX	000009	9	00009	9	00009	9	9

SEASONAL SAMPLING (ORGANIC ONLY)	SPECIAL COMPUTATION	MAXIMUM TIME TO INITIATE SECOND SAMPLE ANALYSIS IF REGULAR SAMPLE IS IN VIOLATION (NITRATE ONLY)	PERIOD WITHIN WHICH CHECK SAMPLES MUST BE MADE
X	X	00	09

PWS TYPE	EFFECTIVE DATE	MONITORING REQUIREMENTS SOURCE TYPE	YEARS TO FIRST SAMPLE	NORMAL SAMPLING FREQUENCY	IF MCL IS VIOLATED MINIMUM SAMPLING FREQUENCY	MINIMUM NUMBER OF SUCCESSIVE NEGATIVE SAMPLES
COMMUNITY	XX/XX/XX	GROUND	9	0009	0009	09
		SURFACE	9	0009	0009	09
NON-COMMUNITY	XX/XX/XX	GROUND	9	0009	0009	09
		SURFACE	9	0009	0009	09

REGS020 1 of 1
9/23/76

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MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS020

DATE XX/XX/XX

REGULATIONS REPOIT - TURBIDITY CONTAMINANT

PAGE 00009

CONTAMINANT ID	REGULATION/LEVEL	CONTAMINANT NAME
0100	XX	TURBIDITY

MCL FOR MONTHLY AVERAGE	MCL FOR CONSECUTIVE SAMPLES	NUMBER OF CONSECUTIVE SAMPLES
09	09	09

EFFECTIVE DATE	APPLY TO ALL SOURCES	INCLUDE REPEAT SAMPLES IN AVERAGE
XX/XX/XX	X	X

FREQUENCY OF MONITORING

COMMUNITY PWS: 009 NON-COMMUNITY PWS: 009

MINIMUM RESAMPLING PERIOD IF MCL EXCEEDED

09

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SouthWestern Ohio Regional Computer Center

EXHIBIT REGS.303

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS020

DATE XX/XX/XX

REGULATIONS REPORT - POPULATION TABLE FOR BACTERIOLOGICAL SAMPLING

PAGE 00009

CONTAMINANT ID	REGULATION/LEVEL	TABLE ID
3000	XX	1

POPULATION LOWER LIMIT	POPULATION UPPER LIMIT	MINIMUM SAMPLES PER MONTH
000000009	000000019	009
000000009	000000009	009
000000009	000000009	009

REGS020 1 of 1
9/23/76

RGF Report Module
SouthWestern Ohio Regional Computer Center
EXHIBIT REGS.304

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS020

DATE XX/XX/XX REGULATIONS REPORT - BACTERIOLOGICAL CONTAMINANT PAGE ZZZZ9

CONTAMINANT ID	REGULATION/LEVEL	CONTAMINANT NAME	EFFECTIVE DATE
3010	XX	COLIFORM	XX/XX/XX

ANALYSIS METHOD	UNIT	SINGLE SAMPLE MCL	MONTHLY MCL	PERCENT OF SAMPLES	MINIMUM REQUIRED SAMPLES TO USE PERCENT	MCL WHEN PERCENT IS USED
MEMBRANE FILTER	COLIFORM	Z9	Z9	Z9	Z9	Z9
FERMENTATION TUBE - 10ML.	POSITIVE PORTIONS	Z9	Z9 (%)	Z9	Z9	Z9
FERMENTATION TUBE - 100ML.	POSITIVE PORTIONS	Z9	Z9 (%)	Z9	Z9	Z9

REQUIREMENTS FOR WAIVER OF ONE MONTH SAMPLING:

MAXIMUM REQUIRED SAMPLES	SAMPLING PERIOD
9	9

CHECK SAMPLING REQUIREMENTS IF SINGLE SAMPLE MCL IS VIOLATED:

MINIMUM NUMBER OF CONSECUTIVE DAILY CHECK SAMPLES	MINIMUM NUMBER OF CONSECUTIVE NEGATIVE PORTIONS	MINIMUM NUMBER OF CONSECUTIVE COLIFORM BACTERIA
9	9	Z9

CHLORINE RESIDUAL METHOD:

NUMBER OF SAMPLES IN LIEU OF ONE REGULAR SAMPLE	MAXIMUM PERCENT OF REGULAR SAMPLES	MINIMUM CHLORINE LEVEL	MAXIMUM TIME TO RETEST CHLORINE LEVEL
Z9	Z9	9.9	Z9

NON-COMMUNITY PWS MONITORING REQUIREMENTS:

EFFECTIVE DATE	SEASONAL SAMPLING	SAMPLING PERIOD	NUMBER OF SAMPLES PER PERIOD
XX/XX/XX	X	X	Z9

RGF Report Module
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT REGS.305

REGS020

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

DATE XX/XX/XX

REGULATIONS REPORT - FLUORIDE MCL TABLE

PAGE 22229

CONTAMINANT ID	REGULATION/LEVEL	TABLE ID
1025	XX	2

TEMPERATURE RANGES AND CORRESPONDING MCL

FAHRENHEIT		CELSIUS		MCL
LOWER	UPPER	LOWER	UPPER	
29.9	29.9	29.9	29.9	22229.9
29.9	29.9	29.9	29.9	22229.9
29.9	29.9	29.9	29.9	22229.9

REASONABLE BOUNDS

29.9	29.9	29.9	29.9

REGS020 1 of 1

9/23/76

RGF Report Module

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EXHIBIT REGS.306

MODEL STATE INFORMATION SYSTEM

REGULATIONS SUBSYSTEM

REGS020

DATE XX/XX/XX

REGULATIONS REPORT - MAJOR BETA EMITTERS TABLE

PAGE ZZZZ

REGULATION/LEVEL	TABLE ID	EFFECTIVE DATE
XX	3	XX/XX/XX

CONTAMINANT ID	CONTAMINANT NAME	ANNUAL CONCENTRATION EQUIVALENT TO MCL DOSE	DETECTION LIMIT	NUCLEAR POWER PLANT CODE(S)
4199	XXXXXXXXXXXXXXX	ZZZZZ.9	ZZZZ	Z Z Z Z Z
4199	XXXXXXXXXXXXXXX	ZZZZZ.9	ZZZZ	Z Z Z Z Z
4199	XXXXXXXXXXXXXXX	ZZZZZ.9	ZZZZ	Z Z Z Z Z

REG020

1 of 1
9/23/76

RGP Report Module
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EXHIBIT REGS.307

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS020

REGULATIONS REPORT - GROSS ALPHA CONTAMINANT

PAGE 00009

DATE XX/XX/XX

CONTAMINANT ID	REGULATION/LEVEL	CONTAMINANT NAME	EFFECTIVE DATE
4000	XX	GROSS ALPHA	XX/XX/XX

MCL AND SCREENING LEVELS:

GROSS ALPHA MCL	COMBINED RADIUM MCL	MAXIMUM GROSS ALPHA SCREENING LEVEL: WITHOUT RADIUM-228	MAXIMUM GROSS ALPHA SCREENING LEVEL: WITH RADIUM-228	MAXIMUM RADIUM-226 SCREENING LEVEL: FOR RADIUM-228	MAXIMUM RADIUM-226 SCREENING LEVEL: FOR ANNUAL MONITORING
29.9	29.9	29.9	29.9	29.9	29.9

SAMPLING AND ANALYSIS REQUIREMENTS:

NUMBER OF SAMPLES PER YEAR	MINIMUM NORMAL MONITORING FREQUENCY	INITIAL MONITORING PERIOD FOR NEW WATER SOURCE	FRACTION OF MCL AT WHICH TO SUBSTITUTE SINGLE ANNUAL SAMPLE
9	9	29	.99

MINIMUM MONITORING FREQUENCY IF PWS IS IN VIOLATION	ANNUAL COMPOSITE OR FOUR SAMPLE AVERAGE REQUIRED	THESE REGULATIONS APPLY TO COMMUNITY, NON-COMMUNITY OR BOTH
29	X	X

REGS020

1 of 1
9/23/76

RGP Report Module
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT REGS.308

MODEL STATE INFORMATION SYSTEM
REGULATIONS SUBSYSTEM

REGS020

DATE XX/XX/XX

REGULATIONS REPORT - GROSS BETA CONTAMINANT

PAGE 22229

CONTAMINANT ID	REGULATION/LEVEL	CONTAMINANT NAME	EFFECTIVE DATE
4100	XX	GROSS BETA	XX/XX/XX

MCL AND SCREENING LEVELS:

MAN-MADE RADIONUCLIDE ANNUAL MCL DOSAGE	TRITIUM SCREENING LEVEL	STRONTIUM-90 SCREENING LEVEL	MAXIMUM GROSS BETA SCREENING LEVELS: FOR MAJOR BETA EMITTERS - NO NUCLEAR FACILITY CONTAMINATION	FOR MAJOR BETA EMITTERS - WATERS CONTAMINATED BY A NUCLEAR FACILITY	FOR STRONTIUM-89 AND CESIUM-134 - WATERS CONTAMINATED BY A NUCLEAR FACILITY
9.9	22229	29.9	29.9	29.9	29.9

SAMPLING AND ANALYSIS REQUIREMENTS:

THESE REGULATIONS APPLY TO COMMUNITY, NON-COMMUNITY OR BOTH	REQUIRED MONITORING OF GROUND WATER SOURCES	COMPOSITE OR SAMPLE AVERAGE REQUIRED	MINIMUM POPULATION FOR REQUIRED ANNUAL MONITORING
X	X	X	222229

NO NUCLEAR FACILITY CONTAMINATION:

NUMBER OF SAMPLES PER YEAR	MINIMUM NORMAL MONITORING FREQUENCY	MINIMUM MONITORING FREQUENCY IF PWS IS IN VIOLATION
9	9	29

WATERS CONTAMINATED BY A NUCLEAR FACILITY:

NUMBER OF SAMPLES PER YEAR		MINIMUM NORMAL MONITORING FREQUENCY		MINIMUM MONITORING FREQUENCY IF PWS IS IN VIOLATION	IODINE-131 CONSECUTIVE DAILY SAMPLES REQUIRED PER QUARTER
IODINE-131	STRONTIUM-90 AND TRITIUM	IODINE-131	STRONTIUM-90 AND TRITIUM		
29	29	29	29	29	29

PWSI030 1 of 1
11/16/76

PRODUCE CONDENSED REPORT
SouthWestern Ohio Regional Computer Center

EXHIBIT PWSI.300

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PWSI030

DATE XX/XX/XX

CONDENSED REPORT

PAGE ZZZZ9

PWS-ID	REGION	DISTRICT	TYPE	MAILING NAME/ADDRESS	PLANT/OWNER ADDRESS	PLANT LOCATION	OWNER TYPE	POPULATION SERVED
XXXXXXX	XX	XX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	CITY: XXXXXXXXXXXXXX COUNTY: XX	X	XXXXXXXXX

PWS1050 1 OF 1
11/18/76

STATE DISCRETIONARY DATA REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT PWS1.301

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PWS1050

DATE XX/XX/XX

PUBLIC WATER SYSTEMS - STATE DISCRETIONARY DATA

PAGE ZZZZ9

REGN	DIST	ID	NAME	BACTERIOLOGICAL									TURBIDITY	
				BACTI FLG	MONTHLY MONITOR	NO OF SAMPLES	SEASON START	SEASON END	MIN NO DAILY CHECKS	NCOM SAMPLE FREQ	MCL HALT CHECK SAMPLE	% CHLORINE SAMPLES	TURBIDITY FLAG	TURBIDITY UNITS
XX	XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	X	XXX	XX/XX	XX/XX	X	XXX	X	XX	X	X.X

CHEMICALS

FOLLOW UP MONITOR CONTAMIN ID	SAMPLE FREQ	ORGANIC BEGIN	ORGANIC END	INORGANIC AIR TEMP	INORGANIC NITRATE FREQ
XXXX	XXX	XX/XX	XX/XX	XX.X	XXXX
XXXX	XXX				
XXXX	XXX				
XXXX	XXX				

RADIOACTIVE

RADIOACTIVE FLG	MONITOR	BETA FREQ MONTHS	NUCLEAR FAC		MONITOR GROSS ALPHA	MONITOR RADIUM MTHS	NUM SAMPLES PER YR	GROUND WATER MONITOR
X	X	XX	X	X	XX	XX	X	X

LAB DATA:

ID	CAPTIVE	TYPE
XXXXX	X	X
XXXXX	X	X
XXXXX	X	X
XXXXX	X	X
XXXXX	X	X

VARIANCE OR EXEMPTION:

CONTAMINANT ID	MODIFIED MCL	ALT MONITOR FREQ
XXXXX	XXXXXX	XXX
XXXXX	XXXXXX	XXX
XXXXX	XXXXXX	XXX
XXXXX	XXXXXX	XXX

FACILITY CONTAMIN ID	CONTAMINANT FREQUENCY
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX
XXXX	XX

Production Data Report Module
SouthWestern Ohio Regional Computer Center

EXHIBIT PWS1.302

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PWS1040

DATE XX/XX/XX

PRODUCTION AND CAPACITY DATA

PAGE ZZZZ9

PWS-ID	REG/ DIST	TYPE	UNITS	PWS NAME	POPULATION SERVED	SERVICES NUMBER	METERS NUMBER	AVERAGE PRODUCT	DESIGN CAPACITY	EMERGENCY POWER	STORAGE CAPACITY	MAXIMUM PRODUCTION
XXXXXXX	XX/XX	X	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXX	XX/XX	X	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXX	XX/XX	X	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXX	XXXXXXX	XXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX

PRODUCE COMPREHENSIVE REPORT
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT PWSI.303

```
                                        MODEL STATE INFORMATION SYSTEM
PWS1060                               PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

DATE XX/XX/XX                                   COMPREHENSIVE REPORT                                                    PAGE ZZZZ9

PWS-ID: XXXXXXX  NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXXX          PHONE: (XXX) XXX-XXXX        INDIAN RESERVATION CODE: XXX
        PLANT ADDRESS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX         PLANT AREA LOCATION:         COMPLIANCE CYCLE: XX
                       XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX        CITY: XXXXXXXXXXXXXXX  POSTAL CODE: XX
         MAILING NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXXX                COUNTY: XXX            PLANT TYPE: X    OWNER TYPE: X
      MAILING ADDRESS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX      REGION: XX          DISTRICT: XX    PLANT BEGIN DATE: XX/XX
PLANT   RESIDENTIAL: X  COMPANY TOWN: X  RECREATION  : X  MOBILE HOMES  : X  INSTITUTION  : X  SCHOOL   X  OTHER AREA: X
 SERVICE  HOTEL    : X  RESTAURANT  : X  SERV STATION: X  CAMPGROUND    : X  PICNIC AREA  : X  LODGE    X
  AREA:   MARINA   : X  SKI RESORT  : X  BATHING     : X  VISITOR CENTER: X  HWY REST AREA: X  AIRPORT: X
                                                                                CONSECUTIVE INDICATOR: X
  POPULATION SERVED: XXXXXXXXX   NUMBER OF SERVICES: XXXXXXX   NUMBER OF METERS: XXXXXXX   NUMBER OF CONSECUTIVE PWS: XXXXXXX
  DESIGN CAPACITY:  XXXXXXXXXX   EMERGENCY POWER: XXXXXXXXXX   STORAGE CAPACITY:XXXXXXXXXX MAXIMUM PRODUCTION: XXXXXXXXXX
  INTERSTATE CARRIER:     X      AVERAGE PRODUCTION:XXXXXXXXXX LAST SURVEY DATE: XX/XX/XX  LAST UPDATE DATE:   XX/XX/XX
  DEACTIVATION REASON:    X      DEACTIVATION DATE: XX/XX/XX   MANUAL FILE: XXXXXXXXXXXX   REGULATE BY: X     ACTIVITY CODE: X

STATE DISCRETIONARY DATA:
  BACTERIOLOGICAL FLG: X     MINIMUM NUMBER DAILY CHECKS: X     NON-COMMUNITY SAMPLING FREQ: XXX              SEASON
  MONTHLY MONITORING:  X     SAMPLES PER QUARTER: XXX           MCL HALT CHECK SAMPLE: X            START: XX/XX    END: XX/XX
  CHLORINE : XX              TURBIDITY FLAG: X                  TURBIDITY UNITS: X.X

FOLLOW UP:          CONTAMINANT ID:     XXXX      XXXX      XXXX      XXXX
                    SAMPLING FREQ :     XXX       XXX       XXX       XXX
  ORGANIC CHEMICALS:              ORGANIC                    INORGANIC CHEMICALS:
                BEGIN PERIOD: XX/XX END PERIOD: XX/XX                    AIR TEMPERATURE: XX.X     NITRATE FREQUENCY: XXXX
RADIOACTIVE: FLAG: X  MONITORING: X  BETA FREQUENCY MONTHS: XX  MONITOR GROSS ALPHA: XX  MONITOR RADIUM MONTHS: XX
          GROUND WATER MONITOR: X  NO SAMPLES PER YEAR: X     NUCLEAR FACILITY: X     NUCLEAR FACILITY TYPES:  X  X
        FACILITY CONTAMINANT ID: XXXX    XXXX    XXXX    XXXX    XXXX    XXXX    XXXX    XXXX    XXXX    XXXX
        SAMPLING FREQUENCY:        XX      XX      XX      XX      XX      XX      XX      XX      XX      XX
OPERATING REPORT:   REPORT REQUIRED: X  LAST REPORT DATE: XX/XX  GENERIC METRIC SYSTEM: X
  STATE RESERVED:

LAB DATA:                                          VARIANCE OR EXEMPTION:
          LAB ID:      XXXXX XXXXX XXXXX XXXXX XXXXX          CONTAMINANT ID  :    XXXX       XXXX       XXXX       XXXX
          CAPTIVE FLG:   X     X     X     X     X             MODIFIED MCL    : XXXXXXXXXX XXXXXXXXX  XXXXXXXXX XXXXXXXXX
PLANT SOURCES NUMBER: XX                                       ALT MONITOR FREQ:    XXX        XXX        XXX        XXX
SOURCE INFORMATION:
                                                                                                   TREATMENTS
                                                                                                A P C S F C S T I A F D O P
                                                                                                E R O E I D O A R M L I T E
                                                                                                R E A D L P F S O W U S H S
                  SOURCE     NUMBER                    BASIN                          SELLER    A C C I T R T Y N O O I E E
   SOURCE NAME     CODE     OF WELLS    AVAILABILITY   NUMBER    LATITUDE    LONGITUDE   ID      T H L M R O E E R N R N R R

 XXXXXXXXXXXXXXX    X          XX            X         XXXX    XXX.XX.XX   XXX.XX.XX   XXXXXXX X X X X X X X X X X X X X X X
 XXXXXXXXXXXXXXX    X          XX            X         XXXX    XXX.XX.XX   XXX.XX.XX   XXXXXXX X X X X X X X X X X X X X X X
 XXXXXXXXXXXXXXX    X          XX            X         XXXX    XXX.XX.XX   XXX.XX.XX   XXXXXXX X X X X X X X X X X X X X X X
```

PWS1120 1 OF 1
11/16/76

CONVERT NATIONAL INVENTORY MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT PWS1.305

PWS1120

DATE XX/XX/XX

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

NATIONAL PUBLIC WATER SUBSYSTEM
CONVERTED DATA REPORT

PAGE ZZZZ9

PWS PLANT-----
NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXX PHONE: XXX XXXXXXX
LOCATION: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX XXXXX

------PLANT------
COUNTY CODE : XXX
POPULATION SERVED: XXXXXXXXX
NUMBER SERVICES : XXXXXXX
NUMBER METERS : XXXXXXX
BEGIN DATE : XX/XX

-----PLANT------
DESIGN CAPACITY : XXXXXXXXXX
EMERGENCY POWER : XXXXXXXXXX
STORAGE CAPACITY: XXXXXXXXXX
AVERAGE CAPACITY: XXXXXXXXXX
MAX. PRODUCTION : XXXXXXXXXX

SERVICE AREA CHARACTERISTICS: COMMUNITY: X COMPANY TOWN: X RECREATION : X MOBILE HOME PARK: X INSTITUTION : X
SCHOOL : X MOTEL : X RESTAURANT : X SERVICE STATION: X CAMPGROUND : X PICNIC AREA : X
LODGE : X MARINA : X SKI RESORT : X BATHING : X VISITOR CENTER : X HIGHWAY REST AREA: X
OTHER : X

PWS PLANT:

LAST UPDATE DATE: 29/29/29

	SOURCE NAME	LATITUDE	LONGITUDE	SOURCE CODE
1	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
2	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
3	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
4	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
5	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
6	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
7	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
8	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
9	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
10	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
11	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X
12	XXXXXXXXXXXXXXX	XXXXXXX	XXXXXXX	X

TREATMENTS	SOURCES 1	2	3	4	5	6	7	8	9	10	11	12
AERATION	X	X	X	X	X	X	X	X	X	X	X	X
PRECHLORINATION	X	X	X	X	X	X	X	X	X	X	X	X
COAGULATION	X	X	X	X	X	X	X	X	X	X	X	X
SEDIMENTATION	X	X	X	X	X	X	X	X	X	X	X	X
FILTRATION	X	X	X	X	X	X	X	X	X	X	X	X
SOFTENING	X	X	X	X	X	X	X	X	X	X	X	X
TASTE-ODOR	X	X	X	X	X	X	X	X	X	X	X	X
IRON-REMOVAL	X	X	X	X	X	X	X	X	X	X	X	X
AMMONIATION	X	X	X	X	X	X	X	X	X	X	X	X
FLOURIDE-ADJUST	X	X	X	X	X	X	X	X	X	X	X	X
DISINFECTION	X	X	X	X	X	X	X	X	X	X	X	X

PWS1090 1 OF 1
11/18/77

PHF PURGE MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT PWS1.306

PWS1090 MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

DATE XX/XX/XX PUBLIC HISTORY FILE PURGE REPORT PAGE ZZZZ9
PURGE DATE: XX/XX/XX

PWS-ID	PWS NAME	CURRENT UPDATE	REGION DIST	LAST UPDATE	DATA ELEMENT CTLG.NO	NEW VALUE	OLD VALUE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX	XX/XX/XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX/XXXXXXXXXXXXXXXXXX

PWSI070 1 of 1
1/12/77

PHF Maintenance Module
SouthWestern Ohio Regional Computer Center

EXHIBIT PWSI.307

PWSI070

DATE XX/XX/XX

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PUBLIC WATER SYSTEM INVENTORY UPDATE REPORT
OPTION: XXXXXXXXXXXXXXX ①

PAGE ZZZZ9

PWS-ID	PWS NAME	CURRENT UPDATE	REGION DIST	LAST DATE	DATA ELEMENT CTLG.NO	NEW VALUE	OLD VALUE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX XX	XX/XX/XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

① X's will be replaced by one of the following:

a. CURRENT UPDATES
b. ALL UPDATES

PWS1010 1 OF 1
3/2/77

PWF DATA ENTRY AND UPDATE MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT PWS1.309

PWS1010
DATE XX/XX/XX

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM
PWF UPDATE STATISTICS REPORT

PAGE ZZZZ9

	-- TOTAL --	% RELATIVE TO THE ORIGINAL FILE
1. NUMBER OF RECORDS ORIGINALLY ON THE FILE	ZZZ,ZZZ,ZZ9	
2. NUMBER OF ACCEPTABLE DATA ENTRY TRANSACTIONS	ZZZ,ZZZ,ZZ9	
3. NUMBER OF STANDARD ERROR RECORDS CREATED	ZZZ,ZZZ,ZZ9	
4. NUMBER OF RECORDS MODIFIED ON THE FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
5. NUMBER OF NEW RECORDS ADDED TO THE FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
6. NUMBER OF DEACTIVATED RECORDS ON THE FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
7. NUMBER OF RECORDS DEACTIVATED THIS RUN	ZZZ,ZZZ,ZZ9	
8. NUMBER OF RECORDS DELETED THIS RUN	ZZZ,ZZZ,ZZ9	ZZ9 %
9. NUMBER OF RECORDS NOW ON THE FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
10. NUMBER OF NEW PWS RECORDS	ZZZ,ZZZ,ZZ9	
11. NUMBER OF INCOMPLETE PWS RECORDS	ZZZ,ZZZ,ZZ9	
12. NUMBER OF PWS STATUS RECORDS	ZZZ,ZZZ,ZZ9	
13. NUMBER OF UNSUCCESSFUL UPDATE RECORDS	ZZZ,ZZZ,ZZ9	

PWS1080 1 OF 1
12/14/76

PHF SELECTION MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT PWS1.311

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PWS1080

DATE XX/XX/XX

PUBLIC HISTORY FILE SELECTION REPORT

PAGE ZZZZ9

PWS-ID	PWS NAME	CURRENT UPDATE	REGION DIST	LAST UPDATE	DATA ELEMENT CTLG.NO	NEW VALUE	OLD VALUE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX XX	XX/XX/XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX XX	XX/XX/XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

PWSI090 1 of 1
11/10/76

PHF Purge Module
SouthWestern Ohio Regional Computer Center

EXHIBIT PWSI.312

MODEL STATE INFORMATION SYSTEM
PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PWSI090 PUBLIC HISTORY FILE PURGE STATISTICS REPORT PAGE ZZZZ9

DATE XX/XX/XX

	-- TOTAL --	% RELATIVE TO THE ORIGINAL FILE
1. NUMBER OF RECORDS ORIGINALLY ON THE FILE	ZZZ,ZZZ,ZZ9	
2. NUMBER OF RECORDS PURGED THIS RUN	ZZZ,ZZZ,ZZ9	ZZ9%
3. NUMBER OF RECORDS NOW ON THE FILE	ZZZ,ZZZ,ZZ9	ZZ9%

WAQC210 1 OF 1
10/28/76

LBT CREATION MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.300

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC210

LABORATORY TABLE REPORT

PAGE ZZZZ9

DATE XX/XX/XX

LAB ID	LABORATORY NAME	OWNER TYPE	EXPIRATION DATE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XX/XX/XX

CONTAMINANT GROUP	AUTHORIZED ANALYSIS METHOD CODES
0	XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX
1	XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX
2	XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX
3	XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX
4	XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX

WAQC01C 1 OF 1
12/17/76

PSF DATA ENTRY AND UPDATE MODULE
SouthWestern Ohio Regional Computer Center
EXHIBIT WAQC.301

```
                                         MODEL STATE INFORMATION SYSTEM
WAQC010                                 WATER QUALITY COMPLIANCE SUBSYSTEM

DATE XX/XX/XX                          UPDATE REPORT - PERIODIC SAMPLE FILE                                PAGE 22229

 ACTION
  TAKEN    --------RECORD KEY-----------------   ---------------------------REMAINDER OF THE RECORD----------------------

  ADDED    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 DELETED   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

WAQC011 1 of 1
12/17/76

PSF Transaction Report
SouthWestern Ohio Regional Computer Center
EXHIBIT WAQC.302

WAQC011

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

DATE XX/XX/XX

TRANSACTION SORT SEQUENCE REPORT - PERIODIC SAMPLE FILE

PAGE 88889

	MNEMONIC NAME	SORT MODE
1.	XXXXXXXXXX	X
2.	XXXXXXXXXX	X
3.	XXXXXXXXXX	X
4.	XXXXXXXXXX	X
5.	XXXXXXXXXX	X
6.	XXXXXXXXXX	X
7.	XXXXXXXXXX	X
8.	XXXXXXXXXX	X
9.	XXXXXXXXXX	X
10.	XXXXXXXXXX	X

WAQC011 1 of 1
12/17/76

PSF Transaction Report

SouthWestern Ohio Regional Computer Center

EXHIBIT WAQC.303

WAQC011

DATE XX/XX/XX

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

INPUT TRANSACTION REPORT - PERIODIC SAMPLE FILE

PAGE 00009

```
                                    CARD COLUMNS
                        1         2         3         4         5         6         7         8
REJECT      12345678901234567890123456789012345678901234567890123456789012345678901234567890
 *          xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
 *          x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
 *          x-------------------------------------------------------------------------------x
            x-------------------------------------------------------------------------------x
```

SAF Update Module
SouthWestern Ohio Regional Computer Center

EXHIBIT WAQC.304

```
                                   MODEL STATE INFORMATION SYSTEM
WAQC020                            WATER QUALITY COMPLIANCE SUBSYSTEM

DATE XX/XX/XX                      SAMPLE ANALYSIS FILE DELETION REPORT                     PAGE ZZZZ9

           RECORD KEY                                  REMAINDER OF THE RECORD

   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

WAQC0R1 1 OF 1
1/13/77

RADIOLOGICAL MCL VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.306

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC0R1

DATE XX/XX/XX

CHEMICAL MCL VIOLATIONS REPORT

PAGE ZZZZ9

PERIOD XX/XX/XX TO XX/XX/XX

PWS-ID	PUBLIC WATER SYSTEM NAME	REGION	DISTRICT	NOTIFY PUBLIC	NOTIFY STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	ANALYSIS DATE	ANALYSIS METHOD	ANALYSIS RESULTS	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	MCL VIOLATED	REGULATION LEVEL
XX/XX/XX	XX	XX/XX/XX	XXX	XXXXXXXXXX	X	XX/XX/XX	XX	XXXXXXXXXX	XX

PWS-ID	PUBLIC WATER SYSTEM NAME	REGION	DISTRICT	NOTIFY PUBLIC	NOTIFY STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	ANALYSIS DATE	ANALYSIS METHOD	ANALYSIS RESULTS	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	MCL VIOLATED	REGULATION LEVEL
XX/XX/XX	XX	XX/XX/XX	XXX	XXXXXXXXXX	X	XX/XX/XX	XX	XXXXXXXXXX	XX

WAQC050 1 OF 1
2/11/77

BACTERIOLOGICAL SAMPLING VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.307

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC050

DATE XX/XX/XX

BACTERIOLOGICAL MCL VIOLATIONS REPORT

PAGE ZZZZ9

PERIOD XX/XX/XX TO XX/XX/XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	----NOTIFY--- PUBLIC	STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

----------LABORATORY---------- ID	NAME	----------CONTAMINANT---------- ID	NAME	----------PWS---------- TYPE	POPULATION	SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

---SAMPLE---- DATE	TYPE	---------ANALYSIS---------- DATE	METHOD	RESULTS	-------VIOLATION------- TYPE	DATE	DURATION (MONTHS)	----MCL--- VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXX	XXXXXXXXXX	XX	XX/XX/XX	XX	XXXXXXXXXX	XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	----NOTIFY--- PUBLIC	STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

----------LABORATORY---------- ID	NAME	----------CONTAMINANT---------- ID	NAME	----------PWS---------- TYPE	POPULATION	SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

---SAMPLE---- DATE	TYPE	---------ANALYSIS---------- DATE	METHOD	RESULTS	-------VIOLATION------- TYPE	DATE	DURATION (MONTHS)	----MCL--- VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXX	XXXXXXXXXX	XX	XX/XX/XX	XX	XXXXXXXXXX	XX

WAQC051 1 OF 1
2/11/77

TURBIDITY SAMPLING VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.308

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC051

DATE XX/XX/XX

TURBIDITY MCL VIOLATIONS REPORT

PAGE ZZZZ9

PERIOD XX/XX/XX TO XX/XX/XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	----NOTIFY--- PUBLIC	STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	ANALYSIS DATE	ANALYSIS METHOD	ANALYSIS RESULTS	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	MCL VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXX	XXXXXXXXXX	XX	XX/XX/XX	XX	XXXXXXXXXX	XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	----NOTIFY--- PUBLIC	STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	ANALYSIS DATE	ANALYSIS METHOD	ANALYSIS RESULTS	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	MCL VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXX	XXXXXXXXXX	XX	XX/XX/XX	XX	XXXXXXXXX	XX

WAQC01 1 OF 1
1/13/77

RADIOLOGICAL MCL VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.309

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC01

DATE XX/XX/XX

RADIOLOGICAL MCL VIOLATIONS REPORT

PAGE ZZZZ9

PERIOD XX/XX/XX TO XX/XX/XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	----NOTIFY--- PUBLIC	STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

----------LABORATORY---------- ID	NAME	----------CONTAMINANT---------- ID	NAME	---------PWS--------- TYPE	POPULATION	SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

---SAMPLE---- DATE	TYPE	---------ANALYSIS---------- DATE	METHOD	RESULTS	-------VIOLATION------- TYPE	DATE	DURATION (MONTHS)	----MCL--- VIOLATED	REGULATION LEVEL
XX/XX/XX	XX	XX/XX/XX	XXX	XXXXXXXXXX	X	XX/XX/XX	XX	XXXXXXXXXX	XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	----NOTIFY--- PUBLIC	STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

----------LABORATORY---------- ID	NAME	----------CONTAMINANT---------- ID	NAME	---------PWS--------- TYPE	POPULATION	SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

---SAMPLE---- DATE	TYPE	---------ANALYSIS---------- DATE	METHOD	RESULTS	-------VIOLATION------- TYPE	DATE	DURATION (MONTHS)	----MCL--- VIOLATED	REGULATION LEVEL
XX/XX/XX	XX	XX/XX/XX	XXX	XXXXXXXXXX	X	XX/XX/XX	XX	XXXXXXXXXX	XX

WAQC060 1 OF 1
2/11/77

CHEMICAL SAMPLING VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.310

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                                        MODEL STATE INFORMATION SYSTEM
                                       WATER QUALITY COMPLIANCE SUBSYSTEM
WAQC060                                                                                                  PAGE ZZZZ9
DATE XX/XX/XX                          CHEMICAL SAMPLING VIOLATIONS REPORT
PERIOD XX/XX/XX TO XX/XX/XX

  PWS-ID    ---PUBLIC WATER SYSTEM NAME---          REGION                    DISTRICT                  ----NOTIFY---
                                                                                                          PUBLIC  STATE
 XXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXX            XX                         XX                          X       X

 -------------LABORATORY--------------          ------------CONTAMINANT-------------                  ---------PWS-----------
  ID                NAME                          ID              NAME                                  TYPE  POPULATION  SOURCE
 XXXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX            XXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX                   X     XXXXXXXXX    X

                                                  ①
---SAMPLE----     SAMPLING  ------NUMBER XXXXXXX SAMPLES----        -------VIOLATION-------      SAMPLING-     REGULATION
 DATE   TYPE      CUT-OFF       REQUIRED            TAKEN          TYPE    DATE   DURATION      FREQUENCY       LEVEL
                   DATE    FEDERAL STATE       FEDERAL STATE                     (MONTHS)       VIOLATED
XX/XX/XX  X       XX/XX/XX    XXXX   XXXX         XXXX   XXXX        XX   XX/XX/XX    XX          XXX            XX

  PWS-ID    ---PUBLIC WATER SYSTEM NAME---          REGION                    DISTRICT                  ----NOTIFY---
                                                                                                          PUBLIC  STATE
 XXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXX            XX                         XX                          X       X

 -------------LABORATORY--------------          ------------CONTAMINANT-------------                  ---------PWS-----------
  ID                NAME                          ID              NAME                                  TYPE  POPULATION  SOURCE
 XXXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX            XXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX                   X     XXXXXXXXX    X

                                                  ①
---SAMPLE----     SAMPLING  ----NUMBER XXXXXXX SAMPLES----        -------VIOLATION-------      SAMPLING-     REGULATION
 DATE   TYPE      CUT-OFF       REQUIRED            TAKEN          TYPE    DATE   DURATION      FREQUENCY       LEVEL
                   DATE    FEDERAL STATE       FEDERAL STATE                     (MONTHS)       VIOLATED
XX/XX/XX  X       XX/XX/XX    XXXX   XXXX         XXXX   XXXX        XX   XX/XX/XX    XX          XXX            XX
```

① WILL CONTAIN EITHER "REGULAR" OR "CHECK" DEPENDING ON VIOLATION TYPE.

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WAQC070                                  1 OF 1
                                         2/11/77
BACTERIOLOGICAL MCL VIOLATIONS REPORT MODULE
          SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.311


                                          MODEL STATE INFORMATION SYSTEM
WAQC070                                  WATER QUALITY COMPLIANCE SUBSYSTEM

DATE XX/XX/XX                          BACTERIOLOGICAL SAMPLING VIOLATIONS REPORT                          PAGE ZZZZ9

PERIOD XX/XX/XX TO XX XX/XX                                                                                CYCLE    29

  PWS-ID    ---PUBLIC WATER SYSTEM NAME---          REGION                        DISTRICT                 ----NOTIFY---
                                                                                                            PUBLIC  STATE
 XXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXX             XX                              XX                      X       X

 -------------LABORATORY--------------          ------------CONTAMINANT-------------          ---------PWS------------
  ID                NAME                          ID                NAME                        TYPE  POPULATION  SOURCE

 XXXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX           XXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX           X     XXXXXXXXX    X

 ---SAMPLE----     SAMPLING  ------NUMBER XXXXXXX ① SAMPLES----        -------VIOLATION-------     SAMPLING-      REGULATION
  DATE   TYPE      CUT-OFF       REQUIRED              TAKEN           TYPE    DATE   DURATION     FREQUENCY        LEVEL
                     DATE    FEDERAL STATE      FEDERAL STATE                         (MONTHS)     VIOLATED

 XX/XX/XX  X       XX/XX/XX    XXXX   XXXX        XXXX   XXXX         XX   XX/XX/XX    XX           XXX            XX

  PWS-ID    ---PUBLIC WATER SYSTEM NAME---          REGION                        DISTRICT                 ----NOTIFY---
                                                                                                            PUBLIC  STATE
 XXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXX             XX                              XX                      X       X

 -------------LABORATORY--------------          ------------CONTAMINANT-------------          ---------PWS------------
  ID                NAME                          ID                NAME                        TYPE  POPULATION  SOURCE

 XXXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX           XXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX           X     XXXXXXXXX    X

 ---SAMPLE----     SAMPLING    ----NUMBER XXXXXXX ① SAMPLES----        -------VIOLATION-------     SAMPLING-      REGULATION
  DATE   TYPE      CUT-OFF       REQUIRED              TAKEN           TYPE    DATE   DURATION     FREQUENCY        LEVEL
                     DATE    FEDERAL STATE      FEDERAL STATE                         (MONTHS)     VIOLATED

 XX/XX/XX  X       XX/XX/XX    XXXX   XXXX        XXXX   XXXX         XX   XX/XX/XX    XX           XXX            XX


① WILL CONTAIN EITHER "REGULAR" OR "CHECK"
  DEPENDING ON VIOLATION TYPE.
```

WAQC080 1 OF 1
2/11/77

TURBIDITY MCL VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.312

WAQC080
DATE XX/XX/XX
PERIOD XX/XX/XX TO XX/XX/XX

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM
TURBIDITY SAMPLING VIOLATIONS REPORT

PAGE ZZZZ9
CYCLE Z9

PWS-ID	PUBLIC WATER SYSTEM NAME	REGION	DISTRICT	NOTIFY PUBLIC	NOTIFY STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	SAMPLING CUT-OFF DATE	NUMBER REQUIRED FEDERAL	NUMBER REQUIRED STATE	① SAMPLES TAKEN FEDERAL	SAMPLES TAKEN STATE	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	SAMPLING FREQUENCY VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXXX	XXXX	XXXX	XXXX	XX	XX/XX/XX	XX	XXX	XX

PWS-ID	PUBLIC WATER SYSTEM NAME	REGION	DISTRICT	NOTIFY PUBLIC	NOTIFY STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	SAMPLING CUT-OFF DATE	NUMBER REQUIRED FEDERAL	NUMBER REQUIRED STATE	① SAMPLES TAKEN FEDERAL	SAMPLES TAKEN STATE	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	SAMPLING FREQUENCY VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXXX	XXXX	XXXX	XXXX	XX	XX/XX/XX	XX	XXX	XX

① WILL CONTAIN EITHER "REGULAR" OR "REPEAT" DEPENDING ON VIOLATION TYPE

WAQC061 1 OF 1
2/11/77

RADIOLOGICAL SAMPLING VIOLATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.313

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC061

DATE XX/XX/XX — RADIOLOGICAL SAMPLING VIOLATIONS REPORT — PAGE ZZZZ9

PERIOD XX/XX/XX TO XX/XX/XX

PWS-ID	PUBLIC WATER SYSTEM NAME	REGION	DISTRICT	NOTIFY PUBLIC	NOTIFY STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	SAMPLING CUT-OFF DATE	NUMBER REQUIRED FEDERAL	NUMBER REQUIRED STATE	SAMPLES TAKEN FEDERAL	SAMPLES TAKEN STATE	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	SAMPLING FREQUENCY VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXXX	XXXX	XXXX	XXXX	XX	XX/XX/XX	XX	XXX	XX

PWS-ID	PUBLIC WATER SYSTEM NAME	REGION	DISTRICT	NOTIFY PUBLIC	NOTIFY STATE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	X

LABORATORY ID	LABORATORY NAME	CONTAMINANT ID	CONTAMINANT NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE DATE	SAMPLE TYPE	SAMPLING CUT-OFF DATE	NUMBER REQUIRED FEDERAL	NUMBER REQUIRED STATE	SAMPLES TAKEN FEDERAL	SAMPLES TAKEN STATE	VIOLATION TYPE	VIOLATION DATE	VIOLATION DURATION (MONTHS)	SAMPLING FREQUENCY VIOLATED	REGULATION LEVEL
XX/XX/XX	X	XX/XX/XX	XXXX	XXXX	XXXX	XXXX	XX	XX/XX/XX	XX	XXX	XX

(1) WILL CONTAIN EITHER "REGULAR" OR "CHECK" DEPENDING ON VIOLATION TYPE

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                WAQC 220                1 OF 1
                                        1/4/77
SAF PURGE MODULE
          SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.315


                                        MODEL STATE INFORMATION SYSTEM
WAQC220                                WATER QUALITY COMPLIANCE SUBSYSTEM
DATE XX/XX/XX                          SAMPLE ANALYSIS FILE - PURGE REPORT                     PAGE ZZZZ9
                 RECORD KEY                                  REMAINDER OF RECORD

      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                               XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                               XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

WAQC220 1 of 1
1/9/77

SAF Purge Module
SouthWestern Ohio Regional Computer Center
EXHIBIT WAQC.316

WAQC220

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

SAMPLE ANALYSIS FILE PURGE STATISTICS REPORT

PAGE ZZZZ9

	TOTAL	% RELATIVE TO THE ORIGINAL FILE
1. NUMBER OF RECORDS ORIGINALLY ON THE FILE	ZZZ,ZZZ,ZZ9	
2. NUMBER OF RECORDS PURGED FROM FILE	ZZZ,ZZZ,ZZ9	ZZZ9 %
3. NUMBER OF RECORDS NOW ON FILE	ZZZ,ZZZ,ZZ9	ZZZ9 %

WAQC140 1 OF 1
3/24/77

CHEMICAL AND RADIOLOGICAL SCHEDULE REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.319

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC140

DATE XX/XX/XX

PWS SCHEDULED FOR CHEMICAL/RADIOLOGICAL SAMPLING

PAGE 2229

REGION	DISTRICT	PWS-ID	PUBLIC WATER SYSTEM NAME	PWS TYPE	POPULATION	CONTAMINANT ID	CONTAMINANT NAME	SAMPLING PERIOD START	SAMPLING PERIOD END
XX	XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	XXXX	XXXXXXXXXXXXXXX	XX/XX/XX	XX/XX/XX
						XXXX	XXXXXXXXXXXXXXX	XX/XX/XX	XX/XX/XX
						XXXX	XXXXXXXXXXXXXXX	XX/XX/XX	XX/XX/XX

TOTAL INORGANIC CHEMICAL SAMPLES XXX

TOTAL ORGANIC CHEMICAL SAMPLES XXX

TOTAL NATURAL RADIONUCLIDE SAMPLES XXX

TOTAL MAN MADE RADIONUCLIDE SAMPLES XXX

* DISTRICT XX TOTAL PWS SCHEDULED TO SAMPLE FOR INORGANIC CHEMICAL ANALYSIS XXXX
ORGANIC CHEMICAL ANALYSIS XXXX
NATURAL RADIONUCLIDE ANALYSIS XXXX
MAN-MADE RADIONUCLIDE ANALYSIS XXXX

** REGION XX TOTAL PWS SCHEDULED TO SAMPLE FOR INORGANIC CHEMICAL ANALYSIS XXXX
ORGANIC CHEMICAL ANALYSIS XXXX
NATURAL RADIONUCLIDE ANALYSIS XXXX
MAN-MADE RADIONUCLIDE ANALYSIS XXXX

*** STATE TOTAL PWS SCHEDULED TO SAMPLE FOR INORGANIC CHEMICAL ANALYSIS XXXX
ORGANIC CHEMICAL ANALYSIS XXXX
NATURAL RADIONUCLIDE ANALYSIS XXXX
MAN-MADE RADIONUCLIDE ANALYSIS XXXX

WAQC120 1 OF 1
2/8/77

VIF SELECTION MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.120

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC125

COMPLIANCE SUMMARY REPORT

DATE XX/XX/XX PAGE ZZZZ9

STATE XX REGION XX DISTRICT XX COMPLIANCE CYCLE Z9

PWS ID	PUBLIC WATER SYSTEM NAME	PWS TYPE	PWS POPULATION	PWS SOURCE
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

VIOLATION ID	VIOLATION DATE	VIOLATION TYPE	VIOLATION DURATION (MONTHS)	CONTAMINANT ID	LABORATORY ID	LABORATORY OWNER	ANALYSIS DATE	ANALYSIS METHOD	ANALYSIS RESULT	MCL VIOLATED	NOTIFY PUBLIC	NOTIFY STATE	REG. LEVEL
XXXXX	XX/XX/XX	XX	XX	XXXX	XXXXX	X	XX/XX/XX	XXX	XXXXXXXXXX	XXXXXXXXXX	X	X	XX

NUMBER OF SAMPLES REQUIRED	NUMBER OF SAMPLES TAKEN	NUMBER OF SAMPLES IN VIOLATION	SAMPLE DATE	SAMPLE TYPE	SAMPLE KEY	SAMPLE CUTOFF DATE	FREQUENCY VIOLATED	LAST REPORT DATE	LAST REPORT TIME	LAST UPDATE	REMARKS
XXXX	XXXX	XXXX	XX/XX/XX	X	XXXXXXXXXX	XX/XX/XX	XXX	XX/XX/XX	XX	XX/XX/XX	XXXXXXXXXXXXXXXXXXXXXXXX

*	TOTAL VIOLATIONS PER PWS	VIOLATIONS OF STATE REGULATIONS: Z,ZZZ,ZZ9	VIOLATIONS OF FEDERAL REGULATIONS: Z,ZZZ,ZZ9
**	TOTAL VIOLATIONS FOR DISTRICT	VIOLATIONS OF STATE REGULATIONS: Z,ZZZ,ZZ9	VIOLATIONS OF FEDERAL REGULATIONS: Z,ZZZ,ZZ9
***	TOTAL VIOLATIONS FOR REGION	VIOLATIONS OF STATE REGULATIONS: Z,ZZZ,ZZ9	VIOLATIONS OF FEDERAL REGULATIONS: Z,ZZZ,ZZ9
****	TOTAL VIOLATIONS FOR STATE	VIOLATIONS OF STATE REGULATIONS: Z,ZZZ,ZZ9	VIOLATIONS OF FEDERAL REGULATIONS: Z,ZZZ,ZZ9

WAQC110 1 OF 1
3/4/77

CHEMICAL ANALYSES SUMMARY REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.321

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC110

DATE XX/XX/XX SUMMARY OF CHEMICAL ANALYSIS REPORT FROM XX/XX/XX TO XX/XX/XX PAGE ZZZZ9

REGION	DISTRICT	PWS-ID	PUBLIC WATER SYSTEM NAME	PWS TYPE	POPULATION	SOURCE
XX	XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE KEY	CONTAMINANT ID	CONTAMINANT NAME	SAMPLE TYPE	SAMPLE DATE	LAB ID	ANALYSIS RESULT	ANALYSIS METHOD	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION DURATION
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX

* CONTAMINANT SUMMARY	SAMPLE TYPE	ANALYSIS RESULT LOW	ANALYSIS RESULT AVERAGE	ANALYSIS RESULT HIGH	MCL STATE	MCL FEDERAL	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX

* NOTE: IF THE CONTAMINANT ID IS NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, ONLY DETAILS ARE TO BE PRINTED; NO CONTAMINANT SUMMARIES WILL BE PRODUCED. CONTAMINANT SUMMARIES ARE TO BE PRODUCED IN THE FOLLOWING ORDER: C - CHECK; D - REGULAR DISTRIBUTION; P - PLANT TAP; R - RAW WATER; S - SPECIAL.

**		TOTAL PWS	POPULATION	CHECK SAMPLES	REGULAR SAMPLES	PLANT TAP SAMPLES	RAW WATER SAMPLES	SPECIAL SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
*	TOTAL FOR DISTRICT	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
**	TOTAL FOR REGION	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
***	TOTAL FOR STATE	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9

NOTE: IF THE DISTRICT AND THE REGION ARE NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, NO TOTALS ARE TO BE PRODUCED.

NOTE: TO PRODUCE THE REPORT IN THE ABOVE FORMAT, THE "SORT" PROCESSING OPTIONS RECORD MUST BE: 01 - REGION; 02 - DISTRICT; 03 - PWS-ID; AND 04 - CONTAMINANT ID.

WAQC111 1 OF 1
3/4/77

RADIOLOGICAL ANALYSES SUMMARY REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.322

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC111

DATE XX/XX/XX SUMMARY OF RADIOLOGICAL ANALYSIS REPORT FROM XX/XX/XX TO XX/XX/XX PAGE ZZZZ9

REGION	DISTRICT	PWS-ID	PUBLIC WATER SYSTEM NAME	PWS TYPE	POPULATION	SOURCE
XX	XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE KEY	CONTAMINANT ID	CONTAMINANT NAME	SAMPLE TYPE	SAMPLE DATE	LAB ID	ANALYSIS RESULT	ANALYSIS METHOD	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION DURATION
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX

CONTAMINANT SUMMARY	SAMPLE TYPE	ANALYSIS RESULT LOW	ANALYSIS RESULT AVERAGE	ANALYSIS RESULT HIGH	MCL STATE	MCL FEDERAL	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX

* NOTE: IF THE CONTAMINANT ID IS NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, ONLY DETAILS ARE TO BE PRINTED; NO CONTAMINANT SUMMARIES WILL BE PRODUCED. CONTAMINANT SUMMARIES ARE TO BE PRODUCED IN THE FOLLOWING ORDER: C - CHECK; D - REGULAR DISTRIBUTION; P - PLANT TAP; R - RAW WATER; S - SPECIAL.

		TOTAL PWS	POPULATION	CHECK SAMPLES	REGULAR SAMPLES	PLANT TAP SAMPLES	RAW WATER SAMPLES	SPECIAL SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
*	TOTAL FOR DISTRICT	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
**	TOTAL FOR REGION	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
***	TOTAL FOR STATE	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9

** NOTE: IF THE DISTRICT AND THE REGION ARE NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, NO TOTALS ARE TO BE PRODUCED.

NOTE: TO PRODUCE THE REPORT IN THE ABOVE FORMAT, THE "SORT" PROCESSING OPTIONS RECORD MUST BE: 01 - REGION; 02 DISTRICT; 03 - PWS-ID; AND 04 - CONTAMINANT ID.

WAQC112 1 OF 1

3/8/77

BACTERIOLOGICAL SUMMARY ANALYSIS REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.323

MODEL STATE INFORMATION SYSTEM

WAQC112 WATER QUALITY COMPLIANCE SUBSYSTEM

DATE XX/XX/XX SUMMARY OF BACTERIOLOGICAL ANALYSIS REPORT FROM XX/XX/XX TO XX/XX/XX PAGE ZZZZ9

REGION	DISTRICT	PWS-ID	PUBLIC WATER SYSTEM NAME	PWS TYPE	POPULATION	SOURCE
XX	XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE KEY	CONTAMINANT ID	CONTAMINANT NAME	RECORD TYPE	SAMPLE TYPE	SAMPLE DATE	LAB ID	ANALYSIS RESULT	ANALYSIS METHOD	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION DURATION
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXX	D	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXX	D	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX

SAMPLE KEY	CONTAMINANT ID	CONTAMINANT NAME	RECORD TYPE	SAMPLE TYPE	ANALYSIS RESULT LOW	ANALYSIS RESULT AVERAGE	ANALYSIS RESULT HIGH	METHOD	NUM SAMPLES REGULAR	NUM SAMPLES CHECK	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION DURATION
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXX	S	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXX	XXXX	XXXX	XXXXXXX	XXXXXXX	XXX
XXXXXXXXXX	XXXX	XXXXXXXXXXXXXXX	S	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXX	XXXX	XXXX	XXXXXXX	XXXXXXX	XXX

* CONTAMINANT SUMMARY	SAMPLE TYPE	ANALYSIS RESULT LOW	ANALYSIS RESULT AVERAGE	ANALYSIS RESULT HIGH	MCL STATE	MCL FEDERAL	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX

* NOTE: IF THE CONTAMINANT ID IS NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, ONLY DETAILS ARE TO BE PRINTED; NO CONTAMINANT SUMMARIES WILL BE PRODUCED. CONTAMINANT SUMMARIES ARE TO BE PRODUCED IN THE FOLLOWING ORDER: C - CHECK; D - REGULAR DISTRIBUTION; P - PLANT TAP; R - RAW WATER; S - SPECIAL.

**	TOTAL PWS	POPULATION	CHECK SAMPLES	REGULAR SAMPLES	PLANT TAP SAMPLES	RAW WATER SAMPLES	SPECIAL SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
* TOTAL FOR DISTRICT	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
** TOTAL FOR REGION	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
*** TOTAL FOR STATE	ZZZZ9	ZZZ,ZZZ,ZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9

** NOTE: IF THE DISTRICT AND THE REGION ARE NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, NO TOTALS ARE TO BE PRODUCED.
NOTE: TO PRODUCE THE REPORT IN THE ABOVE FORMAT, THE "SORT" PROCESSING OPTIONS RECORD MUST BE: 01 - REGION; 02 - DISTRICT; 03 - PWS-ID; AND 04 - CONTAMINANT ID.

WAQC113 1 OF 1
3/4/77

TURBIDITY SUMMARY ANALYSIS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.324

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC113

DATE XX/XX/XX SUMMARY OF TURBIDITY ANALYST REPORT FROM XX/XX/XX TO XX/XX/XX PAGE ZZZZ9

REGION	DISTRICT	PWS-ID	PUBLIC WATER SYSTEM NAME	PWS TYPE	POPULATION	SOURCE
XX	XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXX	X

SAMPLE KEY	CONTAMINANT ID	CONTAMINANT NAME	RECORD TYPE	SAMPLE TYPE	SAMPLE DATE	LAB ID	ANALYSIS RESULT	ANALYSIS METHOD	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION DURATION
XXXXXXXXX	XXXX	XXXXXXXXXXXXXX	D	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX
XXXXXXXXX	XXXX	XXXXXXXXXXXXXX	D	X	XX/XX/XX	XXXXX	XXXXXXXXXX	XXX	XXXX	XXX	XXX	XXX

SAMPLE KEY	CONTAMINANT ID	CONTAMINANT NAME	RECORD TYPE	SAMPLE TYPE	ANALYSIS RESULT LOW	ANALYSIS RESULT AVERAGE	ANALYSIS RESULT HIGH	METHOD	NUM SAMPLES REGULAR	NUM SAMPLES CHECK	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION DURATION
XXXXXXXXX	XXXX	XXXXXXXXXXXXXX	S	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXX	XXXX	XXXX	XXXXXXX	XXXXXXX	XXX
XXXXXXXXX	XXXX	XXXXXXXXXXXXXX	S	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXX	XXXX	XXXX	XXXXXXX	XXXXXXX	XXX

CONTAMINANT SUMMARY	SAMPLE TYPE	ANALYSIS RESULT LOW	ANALYSIS RESULT AVERAGE	ANALYSIS RESULT HIGH	MCL STATE	MCL FEDERAL	NUMBER SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX
	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXXXXX	XXXXXXX	XXXX

* NOTE: IF THE CONTAMINANT ID IS NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, ONLY DETAILS ARE TO BE PRINTED; NO CONTAMINANT SUMMARIES WILL BE PRODUCED. CONTAMINANT SUMMARIES ARE TO BE PRODUCED IN THE FOLLOWING ORDER: C - CHECK; D - REGULAR DISTRIBUTION; P - PLANT TAP; R - RAW WATER; S - SPECIAL.

		TOTAL PWS	POPULATION	CHECK SAMPLES	REGULAR SAMPLES	PLANT TAP SAMPLES	RAW WATER SAMPLES	SPECIAL SAMPLES	VIOLATION STATE	VIOLATION FEDERAL	VIOLATION LONGEST DURATION
*	TOTAL FOR DISTRICT	ZZZZ9	ZZZ,ZZZ,ZZZ	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
**	TOTAL FOR REGION	ZZZZ9	ZZZ,ZZZ,ZZZ	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9
***	TOTAL FOR STATE	ZZZZ9	ZZZ,ZZZ,ZZZ	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZZ9	ZZZZZ9	ZZZZZ9	ZZZ9

** NOTE: IF THE DISTRICT AND THE REGION ARE NOT SPECIFIED ON THE "SORT" PROCESSING OPTIONS RECORD, NO TOTALS ARE TO BE PRODUCED.

NOTE: TO PRODUCE THE REPORT IN THE ABOVE FORMAT, THE "SORT" PROCESSING OPTIONS RECORD MUST BE: 01 - REGION; 02 - DISTRICT; 03 - PWS-ID; AND 04 - CONTAMINANT ID.

WAQC090 1 OF 1
2/11/77

LATE MONTHLY OPERATIONS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.325

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC090

DATE XX/XX/XX

OPERATION REPORT VIOLATIONS REPORT

PAGE ZZZZ9

PERIOD XX/XX/XX TO XX/XX/XX

PWS-ID	---PUBLIC WATER SYSTEM NAME---	REGION	DISTRICT	---------PWS----------			DATE OF LAST REPORT	MONTHS SINCE LAST REPORT
				TYPE	POPULATION	SOURCE		
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	XXXXXXXXX	X	XX/XX/XX	XX
XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XX	X	XXXXXXXXX	X	XX/XX/XX	XX

VARIES 1 OF 1

3/7/77

EDIT FOR INORGANIC VIOLATION MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT WAQC.326

MODEL STATE INFORMATION SYSTEM

WATER QUALITY COMPLIANCE SUBSYSTEM

WAQCXXX ①

DATE XX/XX/XX ② XXXXXXXXXXXXXXXXX VIOLATIONS WARNINGS REPORT PAGE ZZZZ9

PWS-ID	CONTAMINANT-ID	VIOLATION MESSAGE
XXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

① PROGRAM NAME

② CONTAMINANT GROUP NAME:

TURBIDITY
INORGANIC CHEMICAL
ORGANIC CHEMICAL
BACTERIOLOGICAL
GROSS ALPHA
GROSS BETA

WAQC038 1 OF 1
3/8/77

MERGE COMPLIANCE FILES MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.327

MODEL STATE INFORMATION SYSTEM
WATER QUALITY COMPLIANCE SUBSYSTEM

WAQC038

DATE XX/XX/XX COMPLETION REPORT PAGE ZZZZ9

	TOTAL	% RELATIVE TO THE SAMPLE ANALYSIS FILE
NUMBER OF RECORDS ORIGINALLY ON THE SAMPLE ANALYSIS FILE	ZZZ,ZZZ,ZZ9	
NUMBER OF NEW RECORDS ADDED TO THE SAMPLE ANALYSIS FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
NUMBER OF RECORDS CURRENTLY ON THE SAMPLE ANALYSIS FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
NUMBER OF RECORDS CURRENTLY ON THE PERIODIC SAMPLE FILE	ZZZ,ZZZ,ZZ9	
NUMBER OF RECORDS CURRENTLY ON THE VIF TRANSACTION FILE	ZZZ,ZZZ,ZZ9	
NUMBER OF RECORDS CURRENTLY ON THE PWF TRANSACTION FILE	ZZZ,ZZZ,ZZ9	

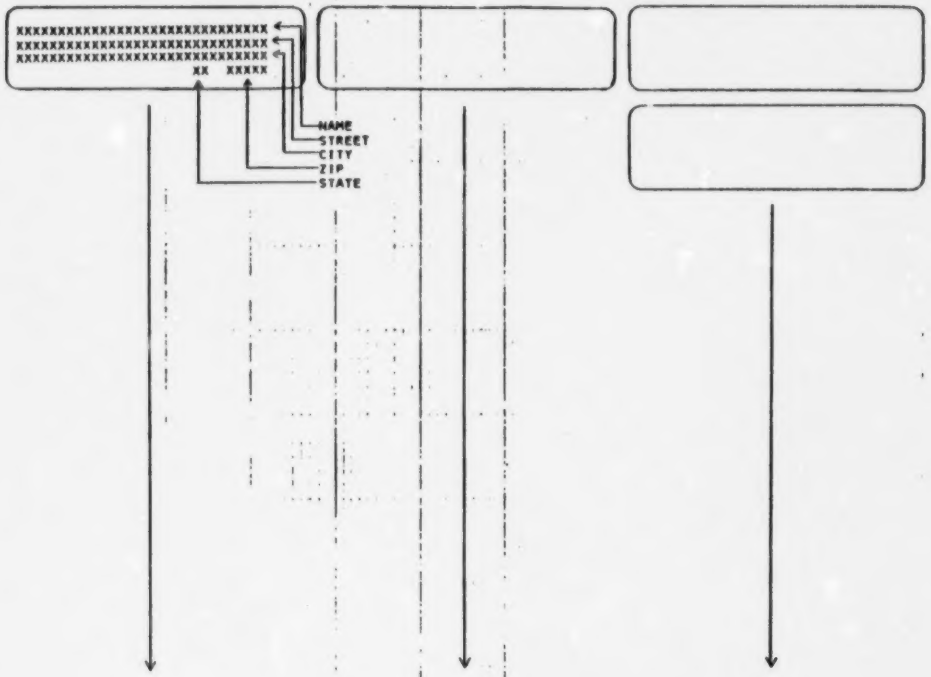
① -NORMAL COMPLETION REPORT

② XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

③ -ERROR MESSAGE WHEN WAQC038 IS NOT PROCESSED NORMALLY.

WAQC200 1 OF 1
3/28/77

MAILING LABELS AND REPORT CARDS MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT WAQC.329



FEDR010 AND 020 1 OF 1
1/8/77

BUILD MODIFIED PWF MODULE AND BUILD DVF MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT FEDR.300

MODEL STATE INFORMATION SYSTEM
FEDERAL REPORTING SUBSYSTEM

XXXXXXX ①

DATE XX/XX/XX

COMPLETION REPORT

PAGE ZZZZ9

		TOTAL	% RELATIVE TO THE XXXXXXXXXXXXXXXXX ②
③	1. NUMBER OF RECORDS ON THE PUBLIC WATER FILE	ZZZ,ZZZ,ZZ9	
	2. NUMBER OF RECORDS ON THE MODIFIED PUBLIC WATER FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
④	1. NUMBER OF RECORDS ON THE VIOLATIONS FILE	ZZZ,ZZZ,ZZ9	
	2. NUMBER OF VIOLATION RECORDS ON THE DEVIATIONS FILE	ZZZ,ZZZ,ZZ9	ZZ9 %
	3. NUMBER OF VARIANCES AND EXEMPTIONS RECORDS ON THE DEVIATIONS FILE	ZZZ,ZZZ,ZZ9	
	4. NUMBER OF RECORDS ON THE DEVIATIONS FILE	ZZZ,ZZZ,ZZ9	

① - PROGRAM NAME FEDR010 OR FEDR020

② - PERCENT TITLE - PUBLIC WATER FILE FOR FEDR010
OR VIOLATIONS FILE FOR FEDR020

③ - DETAIL LINES TO BE USED FOR FEDR010

④ - DETAIL LINES TO BE USED FOR FEDR020

VARIES

1 of 1
10/28/76

This report is produced by any module that needs an Update Statistics Report.

SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.300

MODEL STATE INFORMATION SYSTEM

XXXXXXX ①

X——————————————————————————X ②

DATE XX/XX/XX

STANDARD UPDATE STATISTICS REPORT

PAGE ZZZZ9

	TOTAL	% RELATIVE TO THE ORIGINAL FILE
1. NUMBER OF RECORDS ORIGINALLY ON THE FILE	ZZZ,ZZZ,ZZ9	
2. NUMBER OF ACCEPTABLE DATA ENTRY TRANSACTIONS	ZZZ,ZZZ,ZZ9	
3. NUMBER OF STANDARD ERROR RECORDS CREATED	ZZZ,ZZZ,ZZ9	
4. NUMBER OF RECORDS MODIFIED ON THE FILE	ZZZ,ZZZ,ZZ9	ZZZ9 %
5. NUMBER OF NEW RECORDS ADDED TO THE FILE	ZZZ,ZZZ,ZZ9	ZZZ9 %
6. NUMBER OF RECORDS DELETED FROM THE FILE	ZZZ,ZZZ,ZZ9	ZZZ9 %
7. NUMBER OF RECORDS NOW ON THE FILE	ZZZ,ZZZ,ZZ9	ZZZ9 %

① PROGRAM NAME

② SUBSYSTEM NAME

MSIS020 1 of 1
10/13/76

SHF MAINTENANCE MODULE
SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.301

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS020

DATE XX/XX/XX

UPDATE REPORT FOR XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ①
OPTION: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ②

PAGE ZZZZ9

ID FILE/RECORD	LAST UPDATE	CURRENT UPDATE	DATA ELEMENT MNEMONIC	CAT NUM	HISTORY	OLD VALUE	NEW VALUE
XX XXXXX	XX/XX/XX	XX/XX/XX	XXXXXXXXXX	XXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

① X's will be replaced by one of the following:

a. VIOLATIONS FILE
b. VARIANCES AND EXEMPTIONS FILE
c. ENFORCEMENT ACTIONS FILE
d. OPERATOR AND MAILING FILE

② X's will be replaced by one of the following:

a. CURRENT RECORDS UPDATE REPORT
b. CURRENT FILE RECORDS REPORT
c. ENTIRE MSIS HISTORY REPORT
d. NO DETAIL REPORT

10/15/76

Standard Tables Creation
SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.302

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS030

DATE XX/XX/XX

ERROR MESSAGE TABLE

PAGE 88889

	FILE ID	ERROR CODE	ERROR MESSAGE
* ERROR *	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Standard Tables Creation
SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.303

MSIS030

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATE XX/XX/XX

CODE VALUE TABLE

PAGE 88889

	FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
* ERROR *	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	XX	XXX	X	XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

MSIS030 1 OF 1
10/5/76

STANDARD TABLES CREATION MODULE
SouthWestern Ohio Regional Computer Center
EXHIBIT MSIS.304

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS030

DATE XX/XX/XX

DATA ELEMENT TABLE

PAGE ZZZZ9

			RECORD INFORMATION				NAME INFORMATION	
			START POSITION		FIELD LENGTH			
	FILE ID	CATALOGUE NO	TRANSACTION / FILE		TRANSACTION / FILE		MNEMONIC NAME	HISTORY CODE
"ERROR"	XX	XXX	XX	XXXX	XX	XX	XXXXXXXXXX	X
	XX	XXX	XX	XXXX	XX	XX	XXXXXXXXXX	X
	XX	XXX	XX	XXXX	XX	XX	XXXXXXXXXX	X

MSIS050 1 of 1

10/15/76

SHF PURGE MODULE

SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.305

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

MSIS050

DATE XX/XX/XX

PURGE OF THE STANDARD HISTORY FILE
PURGE DATE: XX/XX/XX

PAGE ZZZZ9

ID FILE/RECORD	LAST UPDATE	CURRENT UPDATE	DATA ELEMENT MNEMONIC	DATA ELEMENT CATALOGUE NUMBER	OLD VALUE	NEW VALUE
XX XXXXX	XX/XX/XX	XX/XX/XX	XXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX XXXXX	XX/XX/XX	XX/XX/XX	XXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX XXXXXXXXXXXXXXXXXXX
XX XXXXX	XX/XX/XX	XX/XX/XX	XXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```
        MSIS040                          1 OF 1
                                         10/14/76
SHF SELECTION MODULE
        SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
 EXHIBIT MSIS.306

                                         MODEL STATE INFORMATION SYSTEM
XXXXXXX (2)                           XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (1)
DATE XX/XX/XX              XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (3)        PAGE ZZZZ9

                                              SORT SEQUENCE
                                         MNEMONIC NAME   SORT MODE
                                      1. XXXXXXXXXX         X
                                      2. XXXXXXXXXX         X
                                              |             |
                                     10. XXXXXXXXXX         X

      RELATION SYMBOLS:  LT = LESS THAN         NL = NOT LESS THAN       EQ = EQUALS
                         GT = GREATER THAN      NG   NOT GREATER THAN    NX = NOT EXISTS (EMPTY)

                                             SELECTION CRITERIA
   MNEMONIC    SYMBOL         VALUE                   MNEMONIC    SYMBOL        VALUE
1. XXXXXXXXXX    XX      XXXXXXXXXXXXXXX        AND XXXXXXXXXX    XX      XXXXXXXXXXXXXXX        AND
   XXXXXXXXXX    XX      XXXXXXXXXXXXXXX        AND ...

  * RECORDS SELECTED     ZZZ,ZZ9

2. XXXXXXXXXX    XX      XXXXXXXXXXXXXXX

  * RECORDS SELECTED     ZZZ,ZZ9

 ** TOTAL RECORDS SELECTED  ZZZ,ZZ9             % OF WHICH WAS SELECTED  ZZ9 %


       (1) SUBSYSTEM NAME
       (2) PROGRAM NUMBER
       (3) REPORT NAME
```

MSIS040 1 of 1
10/14/76

SHF Selection Module
SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.307

MODEL STATE INFORMATION SYSTEM

MSIS040

STANDARD HISTORY PROCESSING
SELECTION OF THE STANDARD HISTORY FILE

DATE XX/XX/XX PAGE ZZZZ9

ID FILE/RECORD	LAST UPDATE	CURRENT UPDATE	DATA ELEMENT MNEMONIC	DATA ELEMENT CATALOGUE NUMBER	OLD VALUE	NEW VALUE
XX XXXXX	XX/XX/XX	XX/XX/XX	XXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX XXXXX	XX/XX/XX	XX/XX/XX	XXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

STANDARD TABLES CREATION MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT MSIS.308

```
                                MODEL STATE INFORMATION SYSTEM
MSIS030                          STANDARD PROCESSING SUBSYSTEM
DATE XX/XX/XX                         ERROR IN CARD CODE                            PAGE ZZZZ9
 *ERROR*       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

```
        MSIS010                          1 OF 1
                                         10/28/76
STANDARD ERROR PROCESSING
        SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT MSIS.309

                                                  MODEL STATE INFORMATION SYSTEM
                                              XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ②
XXXXXXX ①
DATE XX/XX/XX                          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ③              PAGE ZZZZ9

****************************************************************************************************************************************

                         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ④
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ⑤
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

                         XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ④
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ⑤
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX


****************************************************************************************************************************************
```

① PROGRAM NAME

② SUBSYSTEM NAME

③ REPORT NAME

④ IMAGES OF RECORDS THAT ARE IN ERROR - PROC, SEL1, SEL2, SORT, ETC.

⑤ ALL ERROR MESSAGES THAT ARE ASSOCIATED WITH EACH RECORD IN ERROR

10/28/76

This report is produced by several modules that require a warning report.

SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.310

MODEL STATE INFORMATION SYSTEM

XXXXXXX (1) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (2)

DATE XX/XX/XX ***** STANDARD WARNING REPORT ***** PAGE ZZZZ9

RECORD ID	DATA ELEMENT NAME	WARNING MESSAGE
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(1) Program Name

(2) Subsystem Name

VARIES

1 of 1
10/19/76

THE REPORT IS PRODUCED BY SEVERAL MODULES THAT REQUIRE A SORT SEQUENCE REPORT.

SouthWestern Ohio Regional Computer Center

EXHIBIT MSIS.311

MODEL STATE INFORMATION SYSTEM

XXXXXXX ①

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX ②

DATE XX/XX/XX

STANDARD SORT SEQUENCE REPORT

PAGE ZZZZ9

SORT SEQUENCE

	MNEMONIC NAME	SORT MODE
1.	XXXXXXXXXX	X
2.	XXXXXXXXXX	X
3.	XXXXXXXXXX	X
4.	XXXXXXXXXX	X
5.	XXXXXXXXXX	X
6.	XXXXXXXXXX	X
7.	XXXXXXXXXX	X
8.	XXXXXXXXXX	X
9.	XXXXXXXXXX	X
10.	XXXXXXXXXX	X

① PROGRAM NAME

② SUBSYSTEM NAME

VARIES 1 OF 1

10/15/76

THIS REPORT IS PRODUCED BY ANY MODULE THAT NEEDS A SELECTION STATISTICS REPORT.

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT MSIS.112

XXXXXXX (1) MODEL STATE INFORMATION SYSTEM XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (2)

DATE XX/XX/XX STANDARD SELECTION STATISTICS REPORT PAGE ZZZZ9

RELATION SYMBOLS: LT = LESS THAN | NL = NOT LESS THAN | EQ = EQUALS
GT = GREATER THAN | NG = NOT GREATER THAN | NX = NOT EXITS (EMPTY)

SELECTION CRITERIA

	MNEMONIC	SYMBOL	VALUE		MNEMONIC	SYMBOL	VALUE	
1.	XXXXXXXXXX	XX	XXXXXXXXXXXXXXX	AND	XXXXXXXXXX	XX	XXXXXXXXXXXXXXX	AND
	XXXXXXXXXX	XX	XXXXXXXXXXXXXXX	AND	...			

* RECORDS SELECTED ZZZ,ZZ9

2. XXXXXXXXXX XX XXXXXXXXXXXXXXX

* RECORDS SELECTED ZZZ,ZZ9

** TOTAL RECORDS SELECTED ZZZ,ZZ9 % OF FILE WHICH WAS SELECTED ZZ9 %

(1) PROGRAM NAME

(2) SUBSYSTEM NAME

```
          MSIS010                    1 OF 1
                                     11/18/76
STANDARD ERROR PROCESSING MODULE
          SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT MSIS.313


                                               MODEL STATE INFORMATION SYSTEM
MSIS010                                        STANDARD PROCESSING SUBSYSTEM

DATE XX/XX/XX                                    DATA ENTRY ERROR REPORT                                PAGE ZZZZ9
                                         FOR SUBSYSTEM:  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  (1)


ERROR                                                                                      DATA
NUMBER 234567890123456789012345678901234567890123456789012345678901234567890   ELEMENT COLUMNS     EXPLANATIONS

 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXX XX-XX XXXXXXXXXXXXXXXXXXXXXXXXXX  (2)
```

(1) X'S WILL BE REPLACED BY ONE OF THE FOLLOWING:

- A. PUBLIC WATER SYSTEM INVENTORY
- B. WATER QUALITY COMPLIANCE
- C. REGULATIONS
- D. VARIANCES AND EXEMPTIONS
- E. ENFORCEMENT ACTIONS
- F. OPERATOR AND MAILING
- G. STANDARD PROCESSING

(2) SEE ATTACHED SHEETS FOR ERROR DESCRIPTIONS

VAEX020 1 OF 1

10-18-76

COMPLIANCE SCHEDULE REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT VAEX.302

VAEX020

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

DATE XX/XX/XX

COMPLIANCE SCHEDULE REPORT
FOR THE PERIOD XX/XX/XX TO XX/XX/XX

PAGE 22229

REGION: XX DISTRICT: XX

VE-ID	PWS-ID	PUBLIC WATER SYSTEM NAME AND ADDRESS	VARIANCE/ EXEMPTION	V/E STATUS	DESCRIPTION
XXXXX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	XXXXXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

		MILESTONE CODE	MILESTONE DESCRIPTION
TARGET DATE: XX/XX/XX	REPEATING	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TARGET DATE: XX/XX/XX		XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TARGET DATE: XX/XX/XX		XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

VAEX020 1 OF 1
1/11/77

COMPLIANCE SCHEDULE REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT VAEX.303

VAEX020

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

DATE XX/XX/XX

COMPLIANCE SCHEDULE REPORT
FOR THE PERIOD XX/XX/XX TO XX/XX/XX

PAGE ZZZZ9

PWS-ID: XXXXXXX

		MILESTONE CODE	MILESTONE DESCRIPTION
TARGET DATE: XX/XX/XX	REPEATING	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
TARGET DATE: XX/XX/XX		XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX

VAEX030 1 OF 1
1/11/77

COMPLIANCE SCHEDULE IN ARREARS REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT VAEX.304

VAEX030

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

DATE XX/XX/XX

COMPLIANCE IN ARREARS REPORT

PAGE ZZZZ9

REGION: XX DISTRICT: XX

VE-ID	PWS-ID	PUBLIC WATER SYSTEM NAME AND ADDRESS	VARIANCE/ EXEMPTION	V/E STATUS	DESCRIPTION
XXXXX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	XXXXXXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

TARGET DATE	LAG(MONTHS)	DELAY CODE		MILESTONE CODE	MILESTONE DESCRIPTION
XX/XX/XX	XX	X	REPEATING	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX/XX/XX	XX	X		XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX/XX/XX	XX	X		XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

VAEX030 1 OF 1
1/11/77

COMPLIANCE SCHEDULE IN ARREARS REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT VAEX.305

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

VAEX030

COMPLIANCE IN ARREARS REPORT

PAGE ZZZZ9

DATE XX/XX/XX

PWS-ID: XXXXXXX

TARGET DATE	LAG(MONTHS)	DELAY CODE		MILESTONE CODE	MILESTONE DESCRIPTION
XX/XX/XX	XX	X	REPEATING	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX/XX/XX	XX	X		XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

* TOTAL PWS IN ARREARS FOR DISTRICT XX: ZZZZ9

** TOTAL PWS IN ARREARS FOR REGION XX: ZZZZ9

*** TOTAL PWS IN ARREARS FOR STATE XX: ZZZZ9

VAEX041 1 of 1
1/11/77

CONDENSED REPORT MODULE
SouthWestern Ohio Regional Computer Center
EXHIBIT VAEX.306

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

VAEX041

DATE XX/XX/XX CONDENSED REPORT PAGE ZZZZ9

VE ID	REF ID	V/E TYPE	EFFECTIVE DATE	EXPIR. DATE	V/E STATUS	CONT ID	MCL	TREATMENT CODE	REASON CODE	LAST UPDATE	NEXT TARGET	PWS-ID	PWS NAME
XXXXX	XXXXX	X	XX/XX/XX	XX/XX/XX	X	XXXX	XXXXXXXXXX	XXX	XX	XX/XX/XX	XX/XX/XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXX	XXXXX	X	XX/XX/XX	XX/XX/XX	X	XXXX	XXXXXXXXXX	XXX	XX	XX/XX/XX	XX/XX/XX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```
              VAEX050                     1 OF 1
                                          1/11/77
CASE HISTORY REPORT MODULE
              SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT VAEX.307


                                          MODEL STATE INFORMATION SYSTEM
VAEX050                                   VARIANCES AND EXEMPTIONS SUBSYSTEM

DATE XX/XX/XX                                  CASE HISTORY REPORT                                  PAGE ZZZZ9

PWS-ID: XXXXXXX    PWS NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX      PHONE: (XXX) XXX-XXXX     REGION: XX    DISTRICT: XX
                   ADDRESS:  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                             XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX

  V & E ID: XXXXX    REFERENCE ID: XXXXX      TYPE OF V & E: X          EFFECTIVE DATE: XX/XX/XX   EXPIRATION DATE: XX/XX/XX

  V & E STATUS: X    TREATMENT INVOLVED: XXX  ALTERNATE TREATMENT: XXX  CONTAMINANT ID: XXXX       MODIFIED MCL:  XXXXXXXXXX

  REASON CODE: XX    MODIFIED FREQUENCY: XXX                                                       LAST UPDATE DATE: XX/XX/XX
                                                DESCRIPTION:    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                                XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

 MILESTONE  TARGET    ATTAINED                MILESTONE DESCRIPTION          LAG          DELAY          REPEAT
   CODE      DATE       DATE                                               (MONTHS)        CODE         (MONTHS)

    XX     XX/XX/XX   XX/XX/XX          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX         XX            X               XX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

    XX     XX/XX/XX   XX/XX/XX          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX         XX            X               XX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

VAEX050 1 OF 1
10-27-76

CASE HISTORY REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT VAEX.30H

MODEL STATE INFORMATION SYSTEM
VARIANCES AND EXEMPTIONS SUBSYSTEM

VAEX050

DATE xx/xx/xx

CASE HISTORY REPORT

PAGE ZZZZ9

PWS-ID: xxxxxxx

MILESTONE CODE	TARGET DATE	ACTUAL DATE	MILESTONE DESCRIPTION	LAG (MONTHS)	DELAY CODE	REPEAT (MONTHS)
xx	xx/xx/xx	xx/xx/xx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xx	x	xx

ENAC010 1 OF 1
2/15/77

CASE HISTORY REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT ENAC.100

MODEL STATE INFORMATION SYSTEM
ENFORCEMENT ACTIONS SUBSYSTEM

ENAC010

DATE XX/XX/XX

ENFORCEMENT ACTIONS CASE HISTORY REPORT

PAGE ZZZZ9

CASE NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXX CASE REFERENCE: XXXXXXXXXXXX REASON FOR REPORTING: XXXXXXXXXXXXXX

CASE-ID: XXXXX ACTION DATE: XX/XX/XX CASE STATUS: XXXXXX PWS-ID: XXXXXXX PWS NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

DATE OF LAST UPDATE: XX/XX/XX LEGAL STATUS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX PWS STATE: XX

PLAINTIFF NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXX PLAINTIFF TYPE: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

DEFENDANT NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXX DEFENDANT TYPE: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

VIOLATIONS INVOLVED: DATE	TYPE	CONTAMINANT ID	ABSTRACT AND REMARKS
XX/XX/XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XX/XX/XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

CONSENT ORDER NUMBER: XXXXXXX CONSENT DATE: XX/XX/XX PERMIT NUMBER: XXXXXXX PERMIT DATE: XX/XX/XX

MILESTONE HISTORY: MILESTONE	TARGET DATE	ATTAINED DATE
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX/XX/XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX/XX/XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX/XX/XX	XX/XX/XX

ENACO40 1 OF 1
2/8/77

CONDENSED REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT ENAC.301

MODEL STATE INFORMATION SYSTEM
ENFORCEMENT ACTIONS SUBSYSTEM

ENACO40

DATE XX/XX/XX

ENFORCEMENT ACTIONS CONDENSED REPORT

PAGE ZZZZ9

CASE ID	CASE REFERENCE	CASE TITLE	PLAINTIFF TYPE	DEFENDANT TYPE	ACTION DATE	CASE STATUS ③	PWS-ID	XXXXXX DATE	VIOLATIONS TYPE	XXXXXXXX CONTAMINANT
XXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	X	XX/XX/XX	XXXXXX	XXXXXXX	XX/XX/XX XX/XX/XX XX/XX/XX	XX XX XX	XXXX ① XXXX XXXX
XXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	X	X	XX/XX/XX	XXXXXX ③	XXXXXXX	XX/XX/XX	XX	XXXX

*** NUMBER OF ACTIONS FOR PWS: 99999 *** ②

① THERE MAY BE UP TO TEN VIOLATIONS PER ENFORCEMENT ACTION

② THIS TOTAL IS ONLY CALCULATED AND PRINTED
IF THE MAJOR SORT KEY WAS PWS-ID

③ X'S TO BE REPLACED BY OPEN OR CLOSED

SRVY020 1 OF 1
8/1/77

SCHEDULE REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT SRVY.300

SRVY020 MODEL STATE INFORMATION SYSTEM
SANITARY SURVEY SUBSYSTEM
PRIORITY REPORT PAGE ZZZZ9

SELECTION WEIGHTS: PWS TYPE - X.X POPULATION SERVED - X.X COMPLIANCE - X.X LAST SURVEY DATE - X.X TYPE SOURCE - X.X

REGION/ DISTRICT	PWS NAME	ADDRESS	PWS TYPE	POPULATION SERVED	VIOLATIONS IN LAST TWO YEARS	LAST SURVEY DATE	TYPE SOURCE	SELECTION KEY
XX / XX	XXXXXXXXXXXXXXXXXXXXXXXXXXX PWS-ID: XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	X	XXXXXXXXX	XX	XX/XX/XX	XXXXXXX	X.XXXX
XX / XX	XXXXXXXXXXXXXXXXXXXXXXXXXXX PWS-ID: XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	X	XXXXXXXXX	XX	XX/XX/XX	XXXXXXX	X.XXXX

SRVY020 1 OF 1
4/1/77

SCHEDULE REPORT MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT SRVY.301

SRVY020

MODEL STATE INFORMATION SYSTEM
SANITARY SURVEY SUBSYSTEM
SCHEDULE REPORT

PAGE ZZZZ9

FROM XX/XX/XX TO XX/XX/XX SURVEYING CAPACITY: XXXX

SELECTION WEIGHTS: PWS TYPE - X.X POPULATION SERVED - X.X COMPLIANCE - X.X LAST SURVEY DATE - X.X TYPE SOURCE - X.X

REGION/ DISTRICT	PWS NAME	ADDRESS	PWS TYPE	POPULATION SERVED	VIOLATIONS IN LAST TWO YEARS	LAST SURVEY DATE	TYPE SOURCE	SELECTION KEY
XX / XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX PWS-ID: XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	X	XXXXXXXXX	XX	XX/XX/XX	XXXXXXX	X.XXXX
XX / XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX PWS-ID: XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXX	X	XXXXXXXXX	XX	XX/XX/XX	XXXXXXX	X.XXXX

```
                OPER030                          1 of 1
                                                 11/15/76
 Operator Report Program
            SouthWestern Ohio Regional Computer Center
EXHIBIT OPER.300

                                                 MODEL STATE INFORMATION SYSTEM
OPER030
DATE XX/XX/XX                                    OPERATOR AND MAILING SUBSYSTEM                                    PAGE ZZZZ9
                                                   XXXXXXXXXXXXXXXXXXXXXXXXX   ①

  ID       NAME                                STREET
                                               CITY                  STATE  ZIP  CERTIFICATE  PWS      CLASS      RENEWAL  XXXXXXX ②
                                                                                  NUMBER     ID     A B C D E F   DATE   XXXXXXX ③
XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      PHONE: (XXX) XXX-XXXX          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XX   XXXXX   XXXXXXX  XXXXXXX  X X X X X X  XX/XX/XX XXXXXXXXXX

XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      PHONE: (XXX) XXX-XXXX          XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XX   XXXXX   XXXXXXX  XXXXXXX  X X X X X X  XX/XX/XX XXXXXXXXXX
                                                                                                                  INCOMPLETE
                                                                                                                  NEW
                                                                                                                  DELETION

                                                                                  ① REPORT TITLE
                                                                                  ② LISTING REASON FIELD - HEADER1
                                                                                  ③ LISTING REASON FIELD - HEADER2
```

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          OPER030                          1 of 1
                                           1/12/77
OPERATOR REPORT MODULE
          SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT OPER.301

                                           MODEL STATE INFORMATION SYSTEM
OPER030
DATE XX/XX/XX                              OPERATOR AND MAILING SUBSYSTEM                                PAGE ZZZZ9
                                             XXXXXXXXXXXXXXXXXXXXXXXXXX (1)

 ID      NAME                            STREET
                                         CITY              STATE  ZIP   CERTIFICATE   PWS      CLASS      RENEWAL   XXXXXXX (2)
                                                                          NUMBER      ID    A B C D E F    DATE     XXXXXXX (3)
XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      PHONE: (XXX) XXX-XXXX          XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XX   XXXXX   XXXXXXX   XXXXXXX  X X X X X X  XX/XX/XX

XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      PHONE: (XXX) XXX-XXXX          XXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XX   XXXXX   XXXXXX    XXXXXXX  X X X X X X  XX/XX/XX
```

(1) REPORT TITLE

(2) LISTING REASON FIELD - HEADER1

(3) LISTING REASON FIELD - HEADER2

OPER0R0 1 OF 1
1/12/77

DISTRIBUTION REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT OPER.302

OPER0R0
DATE XX/XX/XX

MODEL STATE INFORMATION SYSTEM
OPERATOR AND MAILING SUBSYSTEM
MAILING DISTRIBUTION REPORT

PAGE ZZZZ9

ID	TYPE	NAME	STREET CITY	STATE	ZIP
XXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX PHONE: (XXX) XXX-XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXXXX
XXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX PHONE: (XXX) XXX-XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXXXX

OPER040 1 OF 1
1/12/77

DISTRIBUTION REPORT MODULE
SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER
EXHIBIT OPER.301

MODEL STATE INFORMATION SYSTEM

OPER040
DATE XX/XX/XX

OPERATOR AND MAILING SUBSYSTEM
XXXXXXXXXXXXXXXXXXXXXXXXXX ①

PAGE ZZZZ9

ID	TYPE	NAME	STREET CITY	STATE	ZIP	XXXXXXX ② XXXXXXX ③
XXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX PHONE: (XXX) XXX-XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXXXX	XXXXXXXXXX
XXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX PHONE: (XXX) XXX-XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	XXXXX	XXXXXXXXXX

[INCOMPLETE
NEW
DELETION]

① REPORT TITLE

② LISTING REASON FIELD - HEADER 1

③ LISTING REASON FIELD - HEADER 2

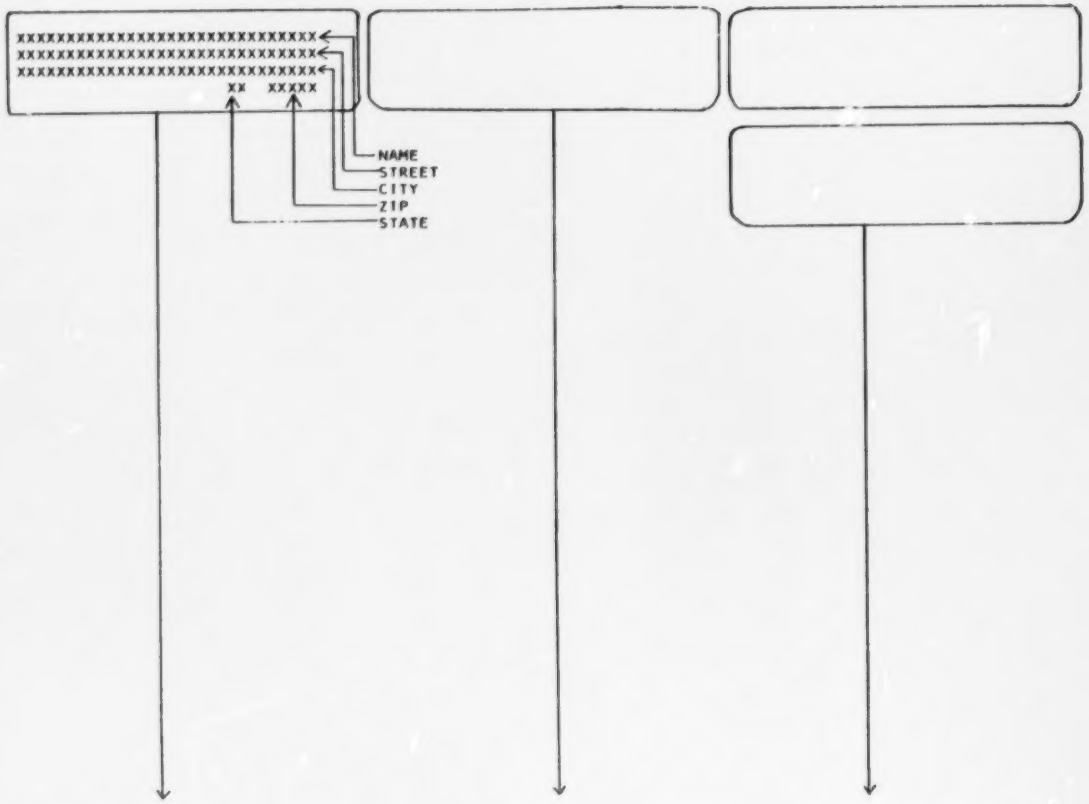
OPER050

1 OF 1
1/12/77

MAILING LABEL MODULE

SOUTHWESTERN OHIO REGIONAL COMPUTER CENTER

EXHIBIT OPER.304



MSIS030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE

PAGE 1

FILE ID	ERROR CODE	ERROR MESSAGE
MS	001	REJECT-INVALID RECORD-ID
MS	002	REJECT-RECORD ALREADY EXISTS
MS	003	REJECT-NO MATCHING RECORD-ID
MS	004	REJECT-RECORD IS INCOMPLETE
MS	005	REJECT-CONTAM ID INVALID
MS	006	REJECT-STATE VALUE TOO LOW
MS	007	REJECT-STATE VALUE TOO HIGH
MS	008	REJECT-FED. RECORD MISSING
MS	009	REJECT-REC. HAS INVALID DATA
MS	010	REJECT-NOT NUMERIC
MS	011	REJECT-VALUE UNNACCEPTABLE
MS	012	REJECT-VALUE TOO HIGH
MS	013	REJECT-VALUE TOO LOW
MS	014	REJECT-NOT IN CODE TABLE
MS	015	REJECT-PWS ID INVALID
MS	016	REJECT-LAB NOT AUTHORIZED
MS	017	REJECT-INVALID TRANSACT CODE
MS	018	REJECT-REQUIRED DATA MISSING
MS	019	REJECT-NO MATCHING MILESTONE
MS	020	REJECT-INVALID DELETE CODE
MS	021	REJECT-INVALID CREATE CODE
MS	022	REJECT-TOO MANY VIOLATIONS
MS	023	REJECT-NO MATCHING VIOLATION
MS	024	REJECT-INVALID REQUEST CODE
MS	025	REJECT-TOO MANY MILESTONES
MS	026	REJECT-INVALID OCCURRENCE
MS	027	REJECT-METHOD NOT ON TABLE
MS	028	REJECT-DUPLICATE MILESTONE
MS	029	REJECT-ILLEGAL DELETION
MS	030	REJECT-ASSOC VALUE MISSING
MS	031	REJECT-TOO MANY CONTAMINANTS
MS	032	REJECT-NO MATCHING CONTAMNT
MS	033	REJECT-INVALID DATE
MS	034	REJECT-DUPLICATE LAB ID
MS	101	WARNING-CHECK ELEMENT VALUE
MS	102	WARNING-ELEMENT EXCEEDS MAX
MS	103	WARNING-ELEMENT BELOW MIN
MS	104	WARNING-NOT IN CODE TABLE
MS	105	WARNING-NOT IN DATA ELE TBL
MS	106	WARNING-DEFAULT VALUE USED
MS	107	WARNING-NOT NUMERIC
MS	108	WARNING-VALUE TOO LOW
MS	401	INVALID-NOT NUMERIC
MS	402	INVALID-NOT IN CODE TABLE
MS	403	INVALID-NOT A VALID DATE
MS	404	INVALID-ELEMENT EXCEEDS MAX
MS	405	INVALID-ELEMENT BELOW MIN
MS	406	INVALID-ELEMENT MISSING
MS	407	INVALID-VALUE UNNACCEPTABLE
MS	408	INVALID-NOT ALPHABETIC

Reproduced from best available copy.

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

ERROR MESSAGE TABLE

FILE ID	ERROR CODE	ERROR MESSAGE
MS	409	INVALID-NOT ON PUB WATER TBL
MS	410	INVALID-ASSOC VALUE MISSING
MS	411	INVALID-CANNOT ACCESS LBT
MS		

MSIB038

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

PAGE 1

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
EA	435	1	A	MUNICIPAL AUTHORITY
EA	435	1	C	CONSERVATION ORGANIZATION
EA	435	1	F	FEDERAL GOVERNMENT
EA	435	1	G	GROUP ACTION
EA	435	1	I	INDUSTRIAL ORGANIZATION
EA	435	1	M	MUNICIPAL GOVERNMENT
EA	435	1	N	COUNTY GOVERNMENT
EA	435	1	O	OTHER ORGANIZATION
EA	435	1	P	PRIVATE CITIZEN
EA	435	1	S	STATE GOVERNMENT
EA	435	1	W	WATER SUPPLY OWNER
EA	435	1	Q	OTHER ORGANIZATION
EA	435	1	1	INDUSTRIAL ORGANIZATION
EA	437	1	F	FEDERAL POLLUTION SOURCE
EA	437	1	I	INDUSTRIAL POLLUTION SOURCE
EA	437	1	M	MUNICIPAL POLLUTION SOURCE
EA	437	1	N	COUNTY POLLUTION SOURCE
EA	437	1	O	OTHER POLLUTION SOURCE
EA	437	1	P	PRIVATE CITIZEN
EA	437	1	S	STATE POLLUTION SOURCE
EA	437	1	W	WATER SUPPLY OWNER
EA	437	1	Q	OTHER POLLUTION SOURCE
EA	437	1	1	INDUSTRIAL POLLUTION SOURCE
EA	449	1	A	PRELIMINARY MOTIONS FILED
EA	449	1	B	SUMMARY MOTION FILED
EA	449	1	C	ORDER,INJUNCTION,TRO FINAL
EA	449	1	D	JUDGEMENT
EA	449	1	E	PENALTY
EA	449	1	F	CONSENT AGREEMENT SIGNED
EA	449	1	G	POST TRIAL MOTIONS FILED
EA	449	1	H	NOTICE OF APPEAL
EA	449	1	I	CIVIL ACTION
EA	449	1	J	STAY PENDING APPEAL
EA	449	1	K	APPEAL PENDING
EA	449	1	L	APPEAL RESOLVED
EA	449	1	M	COMPLIANCE ACHIEVED
EA	449	1	N	COMPLAINT FILED
EA	449	1	O	OTHER
EA	449	1	7	PENDING DELETION
EA	449	1	8	OTHER
EA	449	1	1	CIVIL ACTION
EA	449	1	2	COMPLAINT FILED
EA	449	1	3	BRIEFS FILED
EA	449	1	4	PRETRIAL HELD
EA	449	1	5	HEARING SCHEDULED
EA	449	1	6	HEARING HELD
EA	449	1	7	ORAL ARGUMENTS HEARD

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
EA	449	1	8	INJUCTION REQUESTED
EA	449	1	9	TRO REQUESTED

MSI8030 MODEL STATE INFORMATION
STANDARD PROCESSING SUBSYSTEM
DATE 05/11/77 CODE VALUE TABLE PAGE 1

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
LB	321	1	C	COMMERCIAL
LB	321	1	D	DAIRY
LB	321	1	F	FEDERAL INSTALLATION
LB	321	1	G	FEDERAL OTHER
LB	321	1	H	HEALTH FACILITY
LB	321	1	I	INDIAN RESERVATION
LB	321	1	L	LOCAL
LB	321	1	O	OTHER
LB	321	1	P	PRIVATE
LB	321	1	S	STATE
LB	321	1	U	UNIVERSITY
LB	321	1	W	PUBLIC WATER SUPPLY
LB	321	1	0	OTHER
LB	321	1	1	INDIAN RESERVATION
LB	820	3	001	NEPHELOMETRIC
LB	820	3	101	ATOMIC ABSORPTION
LB	820	3	103	FLAMELESS ATOMIC ABSORPTION
LB	820	3	105	BRUCINE COLORIMETRIC
LB	820	3	107	ELECTRODE
LB	820	3	109	CADMIUM REDUCTION
LB	820	3	111	COLORIMETRIC,PRELIM DISTILL.
LB	820	3	201	ORGANOCHLORINE PESTICIDES
LB	820	3	203	CHLORINATED PHENOXYSHERBICIDES
LB	820	3	301	DPN - CHLORINE RESIDUAL
LB	820	3	303	MEMBRANE FILTER
LB	820	3	305	FERMENTATION TUBE - 10 ML
LB	820	3	307	FERMENTATION TUBE - 100 ML
LB	820	3	401	GROSS ALPHA & BETA, METHOD 302
LB	820	3	403	STRONTIUM-89,90, METHOD 303
LB	820	3	405	TOTAL RADIUM, METHOD 304
LB	820	3	407	RADIUM-226, METHOD 305
LB	820	3	409	TRITIUM, METHOD 306
LB	820	3	411	CESIUM-134, ASTM D-2459
LB	820	3	413	URANIUM, ASTM D-2907
LB	820	3	999	OTHER

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
MS	001	4	0100	TURBIDITY
MS	001	4	1005	ARSENIC
MS	001	4	1010	BARIUM
MS	001	4	1015	CADMIUM
MS	001	4	1020	CHROMIUM
MS	001	4	1025	FLUORIDE
MS	001	4	1030	LEAD
MS	001	4	1035	MERCURY
MS	001	4	1040	NITRATE (AS N)
MS	001	4	1045	SELENIUM
MS	001	4	1050	SILVER
MS	001	4	1055	ADDL CHEM 1
MS	001	4	1060	ADDL CHEM 2
MS	001	4	2005	ENDRIN
MS	001	4	2010	LINDANE
MS	001	4	2015	METHOXYCHLOR
MS	001	4	2020	TOXAPHENE
MS	001	4	2035	ADDL CHEM 3
MS	001	4	2040	ADDL CHEM 4
MS	001	4	2105	2,4 - D
MS	001	4	2110	2,4,5 - TP SILVEX
MS	001	4	3000	COLIFORM
MS	001	4	4000	GROSS ALPHA PARTICLE ACTIVITY
MS	001	4	4010	COMBINED RADIUM
MS	001	4	4020	RADIUM-226
MS	001	4	4030	RADIUM-228
MS	001	4	4100	GROSS BETA PARTICLE ACTIVITY
MS	001	4	4102	TRITIUM
MS	001	4	4128	23-VANADIUM-48
MS	001	4	4136	26-IRON-59
MS	001	4	4142	27-COBALT-60
MS	001	4	4146	28-NICKEL-63
MS	001	4	4172	38-STRONTIUM-89
MS	001	4	4174	38-STRONTIUM-90
MS	001	4	4176	39-YTTRIUM-90
MS	001	4	4178	39-YTTRIUM-91
MS	001	4	4184	40-ZIRCONIUM-95
MS	001	4	4188	41-NIOBIUM-95
MS	001	4	4200	43-TECHNETIUM-99
MS	001	4	4206	44-RUTHENIUM-103
MS	001	4	4208	44-RUTHENIUM-106
MS	001	4	4220	47-SILVER-110
MS	001	4	4242	53-IODINE-129
MS	001	4	4244	53-IODINE-131
MS	001	4	4270	55-CESIUM-134
MS	001	4	4306	63-EUROPIUM-154
MS	002	1	0	OTHER

MSIS030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
MS	082	1	R	REACTOR FACILITY
MS	082	1	W	WASTE STORAGE/REPROCESSING
MS	082	1	O	OTHER
MS	149	2	AK	ALASKA
MS	149	2	AL	ALABAMA
MS	149	2	AR	ARKANSAS
MS	149	2	AS	AMERICAN SAMOA
MS	149	2	AZ	ARIZONA
MS	149	2	CA	CALIFORNIA
MS	149	2	CO	COLORADO
MS	149	2	CT	CONNECTICUT
MS	149	2	DC	DISTRICT OF COLUMBIA
MS	149	2	DE	DELAWARE
MS	149	2	FL	FLORIDA
MS	149	2	GA	GEORGIA
MS	149	2	GU	GUAM
MS	149	2	HI	HAWAII
MS	149	2	IA	IOWA
MS	149	2	ID	IDAHO
MS	149	2	IL	ILLINOIS
MS	149	2	IN	INDIANA
MS	149	2	KS	KANSAS
MS	149	2	KY	KENTUCKY
MS	149	2	LA	LOUISIANA
MS	149	2	MA	MASSACHUSETTS
MS	149	2	MD	MARYLAND
MS	149	2	ME	MAINE
MS	149	2	MI	MICHIGAN
MS	149	2	MN	MINNESOTA
MS	149	2	MO	MISSOURI
MS	149	2	MS	MISSISSIPPI
MS	149	2	MT	MONTANA
MS	149	2	NC	NORTH CAROLINA
MS	149	2	ND	NORTH DAKOTA
MS	149	2	NE	NEBRASKA
MS	149	2	NH	NEW HAMPSHIRE
MS	149	2	NJ	NEW JERSEY
MS	149	2	NM	NEW MEXICO
MS	149	2	NV	NEVADA
MS	149	2	NY	NEW YORK
MS	149	2	OH	OHIO
MS	149	2	OK	OKLAHOMA
MS	149	2	OR	OREGON
MS	149	2	PA	PENNSYLVANIA
MS	149	2	PR	PUERTO RICO
MS	149	2	RI	RHODE ISLAND
MS	149	2	SC	SOUTH CAROLINA

MSIS030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

PAGE 2

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
MS	082	1	R	REACTOR FACILITY
MS	082	1	W	WASTE STORAGE/REPROCESSING
MS	082	1	O	OTHER
MS	149	2	AK	ALASKA
MS	149	2	AL	ALABAMA
MS	149	2	AR	ARKANSAS
MS	149	2	AS	AMERICAN SAMOA
MS	149	2	AZ	ARIZONA
MS	149	2	CA	CALIFORNIA
MS	149	2	CO	COLORADO
MS	149	2	CT	CONNECTICUT
MS	149	2	DC	DISTRICT OF COLUMBIA
MS	149	2	DE	DELAWARE
MS	149	2	FL	FLORIDA
MS	149	2	GA	GEORGIA
MS	149	2	GU	GUAM
MS	149	2	HI	HAWAII
MS	149	2	IA	IOWA
MS	149	2	ID	IDAHO
MS	149	2	IL	ILLINOIS
MS	149	2	IN	INDIANA
MS	149	2	KS	KANSAS
MS	149	2	KY	KENTUCKY
MS	149	2	LA	LOUISIANA
MS	149	2	MA	MASSACHUSETTS
MS	149	2	MD	MARYLAND
MS	149	2	ME	MAINE
MS	149	2	MI	MICHIGAN
MS	149	2	MN	MINNESOTA
MS	149	2	MO	MISSOURI
MS	149	2	MS	MISSISSIPPI
MS	149	2	MT	MONTANA
MS	149	2	NC	NORTH CAROLINA
MS	149	2	ND	NORTH DAKOTA
MS	149	2	NE	NEBRASKA
MS	149	2	NH	NEW HAMPSHIRE
MS	149	2	NJ	NEW JERSEY
MS	149	2	NM	NEW MEXICO
MS	149	2	NV	NEVADA
MS	149	2	NY	NEW YORK
MS	149	2	OH	OHIO
MS	149	2	OK	OKLAHOMA
MS	149	2	OR	OREGON
MS	149	2	PA	PENNSYLVANIA
MS	149	2	PR	PUERTO RICO
MS	149	2	RI	RHODE ISLAND
MS	149	2	SC	SOUTH CAROLINA

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
MS	149	2	SD	SOUTH DAKOTA
MS	149	2	TN	TENNESSEE
MS	149	2	TT	TRUST TERRITORIES
MS	149	2	TX	TEXAS
MS	149	2	UT	UTAH
MS	149	2	VA	VIRGINIA
MS	149	2	VI	VIRGIN ISLANDS
MS	149	2	VT	VERMONT
MS	149	2	WA	WASHINGTON
MS	149	2	WI	WISCONSIN
MS	149	2	WV	WEST VIRGINIA '
MS	149	2	WY	WYOMING
MS	149	2	01	EPA REGION I - BOSTON
MS	149	2	02	EPA REGION II - NEW YORK
MS	149	2	03	EPA REGION III - PHILADELPHIA
MS	149	2	04	EPA REGION IV - ATLANTA
MS	149	2	05	EPA REGION V - CHICAGO
MS	149	2	06	EPA REGION VI - DALLAS
MS	149	2	07	EPA REGION VII - KANSAS CITY
MS	149	2	08	EPA REGION VIII - DENVER
MS	149	2	09	EPA REGION IX - SAN FRANCISCO
MS	149	2	10	EPA REGION X - SEATTLE
MS	343	2	01	SINGLE SAMPLE MCL
MS	343	2	02	AVERAGE MCL
MS	343	2	03	REGULAR SAMPLING
MS	343	2	04	CHECK (REPEAT) SAMPLING
MS	343	2	05	STATE NOTIFICATION
MS	343	2	06	PUBLIC NOTIFICATION
MS	343	2	07	TREATMENT TECHNIQUES
MS	343	2	08	V OR E COMPLIANCE SCHEDULE
MS	343	2	09	RECORD KEEPING
MS	343	2	10	OPERATIONS REPORT
MS	343	2	01	LETTER TO PWS FROM STATE HSP
MS	454	2	06	ADM.HEARING - PWS & STATE HSP
MS	454	2	07	OTHER STATE ADM.PROCEDURE
MS	454	2	10	INJUNCTION SOUGHT
MS	454	2	13	FINE LEVIED ON PWS
MS	454	2	16	OTHER CIVIL ACTION
MS	454	2	19	EXPLORE ALT. SOURCES OF WATER
MS	454	2	22	EXPLORE REGIONAL SYS. DEVELOP
MS	454	2	25	FINANCIAL AID OBTAINED
MS	454	2	28	TREATMENT SYSTEM DESIGNED
MS	454	2	31	TREATMENT SYSTEM APPROVED
MS	454	2	34	TREATMENT SYSTEM BUILT
MS	454	2	37	PERIODIC MONITORING REQ'D.

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
OM	479	1	L	LABORATORY OWNER
OM	479	1	O	OPERATOR
OM	479	1	P	WATER PURVEYOR
OM	479	1	S	SANITARY ENGINEER
OM	479	1	W	WATER SUPPLY OWNER
OM	479	1	X	OTHER
OM	479	1	O	OPERATOR

MSIB030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

PAGE 1

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
PW	159	3	001	ADAMS
PW	159	3	003	ALEXANDER
PW	159	3	005	BOND
PW	159	3	007	BOONE
PW	159	3	009	BROWN
PW	159	3	011	BUREAU
PW	159	3	013	CALHOUN
PW	159	3	015	CARROLL
PW	159	3	017	CASS
PW	159	3	019	CHAMPAIGN
PW	159	3	021	CHRISTIAN
PW	159	3	023	CLARK
PW	159	3	025	CLAY
PW	159	3	027	CLINTON
PW	159	3	029	COLES
PW	159	3	031	COOK
PW	159	3	033	CRAWFORD
PW	159	3	035	CUMBERLAND
PW	159	3	037	DE KALB
PW	159	3	039	DE WITT
PW	159	3	041	DOUGLAS
PW	159	3	043	DE PAGE
PW	159	3	045	EDGAR
PW	159	3	047	EDWARDS
PW	159	3	049	EFFINGHAM
PW	159	3	051	FAYETTE
PW	159	3	053	FORD
PW	159	3	055	FRANKLIN
PW	159	3	057	FULTON
PW	159	3	059	GALLATIN
PW	159	3	061	GREENE
PW	159	3	063	GRUNDY
PW	159	3	065	HAMILTON
PW	159	3	067	HANCOCK
PW	159	3	069	HARDIN
PW	159	3	071	HENDERSON
PW	159	3	073	HENRY
PW	159	3	075	IROQUOIS
PW	159	3	077	JACKSON
PW	159	3	079	JASPER
PW	159	3	081	JEFFERSON
PW	159	3	083	JERSEY
PW	159	3	085	JO DAVIESS
PW	159	3	087	JOHNSON
PW	159	3	089	KANE
PW	159	3	091	KANKAKEE
PW	159	3	093	KENDALL

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
PW	159	3	095	KNOX
PW	159	3	097	LAKE
PW	159	3	099	LA SALLE
PW	159	3	101	LAWRENCE
PW	159	3	103	LEE
PW	159	3	105	LIVINGSTON
PW	159	3	107	LOGAN
PW	159	3	109	MCDONOUGH
PW	159	3	111	MCHENRY
PW	159	3	113	MCLEAN
PW	159	3	115	MACON
PW	159	3	117	MACOUPIN
PW	159	3	119	MADISON
PW	159	3	121	MARION
PW	159	3	123	MARSHALL
PW	159	3	125	MASON
PW	159	3	127	MASSAC
PW	159	3	129	MENARD
PW	159	3	131	MERCER
PW	159	3	133	MONROE
PW	159	3	135	MONTGOMERY
PW	159	3	137	MORGAN
PW	159	3	139	MOULTRIE
PW	159	3	141	OGLE
PW	159	3	143	PEORIA
PW	159	3	145	PERRY
PW	159	3	147	PIATT
PW	159	3	149	PIKE
PW	159	3	151	POPE
PW	159	3	153	PULASKI
PW	159	3	155	PUTNAM
PW	159	3	157	RANDOLPH
PW	159	3	159	RICHLAND
PW	159	3	161	ROCK ISLAND
PW	159	3	163	ST CLAIR
PW	159	3	165	SALINE
PW	159	3	167	SANGAMON
PW	159	3	169	SCHUYLER
PW	159	3	171	SCOTT
PW	159	3	173	SHELBY
PW	159	3	175	STARK
PW	159	3	177	STEPHENSON
PW	159	3	179	TAZEWELL
PW	159	3	181	UNION
PW	159	3	183	VERMILLION
PW	159	3	185	WABASH
PW	159	3	187	WARREN

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
PW	159	3	189	WASHINGTON
PW	159	3	191	WAYNE
PW	159	3	193	WHITE
PW	159	3	195	WHITESIDE
PW	159	3	197	WILL
PW	159	3	199	WILLIAMSON
PW	159	3	201	WINNEBAGO
PW	159	3	203	WOODFORD
PW	160	3	017	CANADIAN INDIAN
PW	160	3	018	CAYUGA
PW	160	3	019	CAYUGA-SENECA
PW	160	3	020	CONFEDERATED TRIBES CHEHALIS
PW	160	3	027	CHICKASAW
PW	160	3	032	CHOCTAW
PW	160	3	037	COEUR D'ALENE
PW	160	3	042	CREE
PW	160	3	043	CREEK
PW	160	3	044	CROW
PW	160	3	076	MIAMI
PW	160	3	078	MISSOURI
PW	160	3	079	MISSOURI-OTOE
PW	160	3	091	NBADF
PW	160	3	093	OTTAWA
PW	160	3	097	PAWNEE
PW	160	3	103	POTAWATOMIE
PW	160	3	140	SHAWNEE
PW	160	3	142	EASTERN SHAWNEE
PW	160	3	171	WINNEBAGO
PW	196	1	A	SYSTEM ABANDONED
PW	196	1	D	DUPLICATE PWS WITH ANOTHER ID
PW	196	1	M	SYSTEM MERGED/CONSOLIDATED
PW	196	1	O	OTHER
PW	196	1	P	SYSTEM PURGED FROM INVENTORY
PW	196	1	R	PWS REENTERED WITH NEW ID
PW	196	1	S	SYSTEM DISCONTINUED
PW	196	1	O	OTHER
PW	200	2	01	REGION 1 - ROCKFORD
PW	200	2	02	REGION 2 - AURORA
PW	200	2	03	REGION 3 - SPRINGFIELD
PW	200	2	04	REGION 4 - COLLINSVILLE
PW	200	2	05	REGION 5 - MARION
PW	200	2	3A	REGION 3A - CHAMPAIGN
PW	201	2	01	DISTRICT 1
PW	201	2	02	DISTRICT 2
PW	201	2	03	DISTRICT 3
PW	201	2	04	DISTRICT 4
PW	201	2	05	DISTRICT 5

MSI8030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
PW	201	2	06	DISTRICT 6
PW	237	1	A	AUTHORITY/COMMISION/DISTRICT
PW	237	1	C	CITY
PW	237	1	F	FEDERAL
PW	237	1	I	INVESTOR
PW	237	1	M	MUNICIPALITY
PW	237	1	N	COUNTY
PW	237	1	O	OTHER
PW	237	1	S	STATE
PW	237	1	U	UNKNOWN
PW	237	1	0	OTHER
PW	237	1	1	INVESTOR
PW	246	1	E	EMERGENCY SOURCE
PW	246	1	I	INTERIM SOURCE
PW	246	1	O	OTHER
PW	246	1	P	PERMANENT SOURCE
PW	246	1	R	RESERVE SOURCE
PW	246	1	S	SEASONAL SOURCE
PW	246	1	0	OTHER
PW	246	1	1	INTERIM SOURCE
PW	247	4	0515	SALT RIVER
PW	247	4	0516	GREEN RIVER
PW	247	4	0517	WABASH RIVER
PW	247	4	0518	EAST FORK WHITE RIVER
PW	247	4	0519	WEST FORK WHITE RIVER
PW	247	4	0520	CUMBERLAND RIVER
PW	247	4	0521	OHIO RIVER MAIN STEM
PW	247	4	0803	MENOMINEE
PW	247	4	0804	CEDAR
PW	247	4	0805	FORD
PW	247	4	0806	ESCANABA
PW	247	4	0807	RAPID
PW	247	4	0808	WHITEFISH
PW	247	4	0809	STURGEON
PW	247	4	0810	FISHDAM
PW	247	4	0811	MANISTIQUE
PW	247	4	0816	BOARDMAN
PW	247	4	0818	RETSIE
PW	247	4	0823	WHITE
PW	247	4	0828	GRAND
PW	248	3	001	0394531 0401228
PW	248	3	003	0370009 0372033
PW	248	3	005	0384401 0390156
PW	248	3	007	0420925 0433011
PW	248	3	009	0395005 0400626
PW	248	3	011	0410852 0423527
PW	248	3	013	0385133 0392412

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
PW	248	3	015	0415556 0421219
PW	248	3	017	0395204 0400725
PW	248	3	019	0395241 0402331
PW	248	3	021	0392100 0404043
PW	248	3	023	0391085 0392908
PW	248	3	025	0383543 0395053
PW	248	3	027	0382447 0394408
PW	248	3	029	0392226 0404056
PW	248	3	031	0412753 0420934
PW	248	3	033	0385107 0391039
PW	248	3	035	0391021 0392246
PW	248	3	037	0413748 0420935
PW	248	3	039	0400301 0401653
PW	248	3	041	0393488 0405246
PW	248	3	043	0413959 0425020
PW	249	3	001	0905435 0923014
PW	249	3	003	0891034 0903039
PW	249	3	005	0891539 0903814
PW	249	3	007	0884205 0895625
PW	249	3	009	0903038 0915443
PW	249	3	011	0890952 0905106
PW	249	3	013	0902704 0915610
PW	249	3	015	0894107 0901980
PW	249	3	017	0895919 0913907
PW	249	3	019	0875565 0882842
PW	249	3	021	0890143 0903229
PW	249	3	023	0873214 0880111
PW	249	3	025	0881503 0894218
PW	249	3	027	0890837 0904227
PW	249	3	029	0875869 0882836
PW	249	3	031	0873126 0881640
PW	249	3	033	0873121 0885721
PW	249	3	035	0880111 0882841
PW	249	3	037	0883453 0895640
PW	249	3	039	0883453 0890829
PW	249	3	041	0875625 0882836
PW	249	3	043	0875524 0881640

MSIS030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
RG	044	1	C	COLOR
RG	044	1	D	TDS
RG	044	1	F	FOAMING
RG	044	1	H	HEALTH
RG	044	1	I	IRON
RG	044	1	L	CHLORIDE
RG	044	1	M	MANGANESE
RG	044	1	O	ODOR
RG	044	1	P	PH
RG	044	1	S	SULFATE
RG	044	1	T	TASTE
RG	044	1	U	COPPER
RG	044	1	V	CORROSIVITY
RG	044	1	Y	HYDROGEN SULFIDE
RG	044	1	Z	ZINC
RG	044	1	0	ODOR
RG	044	1	1	IRON
RG	044	1	2	ZINC

MSIS010

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

CODE VALUE TABLE

PAGE 1

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
VE	461	1	A	INTEREST IN V OR E EXPRESSED
VE	461	1	C	APPLICATION FOR V OR E REC'D
VE	461	1	E	STATE PROPOSES TO DENY V OR E
VE	461	1	G	STATE PROPOSES TO GRANT V OR E
VE	461	1	I	HEARING ON PROPOSAL SCHEDULED
VE	461	1	K	HEARING ON PROPOSAL HELD
VE	461	1	M	COMPLIANCE SCHEDULE PRESCRIBED
VE	461	1	O	HEARING ON SCHEDULE OFFERED
VE	461	1	Q	HEARING ON SCHEDULE HELD
VE	461	1	R	ADDITIONAL INFORMATION DESIRED
VE	461	1	S	V OR E GRANTED
VE	461	1	T	V OR E DENIED
VE	461	1	U	STATE SETS MONITORING REQ'M
VE	461	1	V	EPA SETS MONITORING REQ'M
VE	461	1	W	NOTIFICATION GIVEN TO PUBLIC
VE	461	1	X	OTHER
VE	461	1	Y	NOTIFICATION GIVEN TO EPA
VE	461	1	Z	PENDING DELETION
VE	461	1	0	HEARING ON SCHEDULE OFFERED
VE	461	1	1	HEARING ON PROPOSAL SCHEDULED
VE	465	3	020	AERATION
VE	465	3	040	PRECHLORINATION
VE	465	3	060	COAGULATION
VE	465	3	080	SEDIMENTATION
VE	465	3	100	FILTRATION
VE	465	3	120	CORROSION CONTROL
VE	465	3	140	SOFTENING
VE	465	3	160	TASTE AND ODOR CONTROL
VE	465	3	180	IRON REMOVAL
VE	465	3	200	AMMONIATION
VE	465	3	220	FLORIDE ADJUSTMENT
VE	465	3	240	DISINFECTION
VE	466	3	001	LIME COAGULATION
VE	466	3	003	PRECIPITATION
VE	466	3	005	SEQUESTRATION
VE	466	3	007	STRAINING
VE	466	3	009	SCREENING
VE	466	3	011	DESALINATION
VE	466	3	013	REVERSE OSMOSIS
VE	466	3	015	MANGANESE REMOVAL
VE	466	3	017	ACTIVATED CARBON (GRANULAR)
VE	466	3	019	ACTIVATED CARBON (POWDERED)
VE	466	3	021	FLUORIDATION
VE	466	3	023	FLUORIDE REMOVAL
VE	466	3	025	U.V. DISINFECTION
VE	466	3	027	OZONE DISINFECTION
VE	466	3	029	IODINE DISINFECTION

FILE ID	DATA ELEMENT CATALOGUE NO	DATA ELEMENT LENGTH	DATA ELEMENT VALUE	DATA ELEMENT DESCRIPTION
VE	466	3	031	CHLORINE DISINFECTION
VE	466	3	033	CHLORINE DIOXIDE
VE	466	3	035	BREAKPOINT CHLORINATION
VE	466	3	037	POST-CHLORINATION
VE	466	3	038	SUPER-CHLORINATION
VE	466	3	041	CARBON ABSORPTION
VE	466	3	043	ELECTRODIALYSIS
VE	466	3	045	DISTILLATION
VE	466	3	047	RE-CARBONATION
VE	466	3	049	ION EXCHANGE
VE	466	3	051	FLOCCULATION
VE	466	3	053	PH ADJUSTMENT
VE	466	3	055	CHEMICAL OXIDATION
VE	466	3	057	ABSORBING AGENTS
VE	466	3	998	OTHER
VE	466	3	999	NO TREATMENT REQUIRED
VE	469	2	01	CANNOT COMPLY AFTER TREATMENT
VE	469	2	03	CANNOT AFFORD FACILITY CONST.
VE	469	2	05	FUNDS PENDING
VE	469	2	07	FACILITY CONST. PENDING
VE	469	2	09	UNABLE TO AFFORD TREATMENT
VE	469	2	11	TREATMENT UNNECESSARY
VE	469	2	13	TREATMENT IMPRACTICAL
VE	469	2	99	OTHER
VE	476	1	2	DELETE MILESTONE
VE	476	1	1	FACILITY CONSTRUCTION NOT COMP
VE	476	1	3	NEW WATER SOURCE NOT FOUND

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

RECORD INFORMATION						NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
EA	430	01	0001	05	05	EA-CASE-ID	Y
EA	431	09	0006	12	12	EA-CASE-RE	Y
EA	432	21	0018	30	30	EA-CASENAM	Y
EA	433	51	0048	06	05	EA-ACT-DAT	Y
EA	434	08	0053	01	01	EA-CLOSE	Y
EA	435	08	0054	01	01	EA-PLNTYPE	Y
EA	436	09	0055	30	30	EA-PLNNAME	Y
EA	437	39	0085	01	01	EA-DEFTYPE	Y
EA	438	40	0086	30	30	EA-DEFNAME	Y
EA	439	08	0116	07	07	EA-ORDERNO	Y
EA	440	15	0123	06	05	EA-ORDATE	Y
EA	441	21	0128	07	07	EA-PERNO	Y
EA	442	28	0135	06	05	EA-PERDATE	Y
EA	443	58	0140	07	07	EA-PNB-ID	Y
EA	444	65	0147	02	02	EA-STATE	Y
EA	445	10	****	06	05	EA-VIL-DAT	Y
EA	446	16	****	08	04	EA-CON-ID	Y
EA	447	08	****	02	02	EA-VIOL-TP	Y
EA	448	08	****	30	30	EA-ABSTRAC	Y
EA	449	57	0559	01	01	EA-LEGALST	Y
EA	450	08	0560	08	05	EA-LST-UP	Y
EA	451	08	0565	08	02	EA-HISTONE	Y
EA	452	16	****	06	05	EA-TAR-DT	Y
EA	453	16	****	06	05	EA-ATT-DAT	Y
EA	454	08	****	02	02	EA-HIL-COD	Y
EA	904	06	****	02	02	EA-TRAN-CD	N
EA	907	08	****	01	01	EA-CRDT-CD	N
EA	911	22	****	01	01	EA-DEL-CD	N

MSI0030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

PAGE 1

		RECORD INFORMATION				NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
LB	319	01	0001	05	05	LB-ID	N
LB	320	06	0006	01	01	LB-CONTGRP	N
LB	321	07	0007	01	01	LB-ON-TYPE	N
LB	322	08	0008	30	30	LB-NAME	N
LB	323	38	0038	06	05	LB-EXP-DT	N
LB	324	00	0043	00	06	LB-REL-REC	N
LB	325	00	0049	00	02	LB-METHCNT	N
LB	820	07	****	72	03	LB-METHOD	N
LB	914	79	****	02	02	TRAN-CODE	N

MSI8630

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

FILE ID	CATALOGUE NO	RECORD INFORMATION START POSITION TRANSACTION	START POSITION FILE	FIELD LENGTH TRANSACTION	FIELD LENGTH FILE	NAME INFORMATION MNEMONIC NAME	HISTORY CODE
OM	478	01	0001	05	05	OM-ADS-ID	Y
OM	479	06	0006	01	01	OM-ADS-TYP	Y
OM	480	09	0007	30	30	OM-ADS-NAM	Y
OM	481	39	0037	30	30	OM-ADS-STR	Y
OM	482	68	0067	30	30	OM-ADS-CTY	Y
OM	483	98	0097	02	02	OM-ADS-STA	Y
OM	484	40	0099	05	05	OM-ADS-ZIP	Y
OM	485	45	0104	03	03	OM-AREA-CD	Y
OM	486	48	0107	07	07	OM-PH-NUM	Y
OM	487	00	0114	05	05	OM-LST-UPD	Y
OM	488	08	0119	07	07	OM-CER-NUM	Y
OM	489	15	0126	07	07	OM-PWB-ID	Y
OM	490	22	****	06	01	OM-OP-CLS	Y
OM	491	28	0139	06	05	OM-RNL-DT	Y
OM	903	06	****	02	02	OM-TRAN-CD	N
OM	908	08	****	01	01	OM-CRDT-CD	N

MSI8030

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATE 05/11/77

DATA ELEMENT TABLE

PAGE 1

	RECORD INFORMATION					NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
PH	310	00	0001	00	07	PH-PWS-ID	Y
PH	311	00	0008	00	03	PH-CAT-NO	Y
PH	312	00	0011	00	05	PH-CUR-UP	Y
PH	313	00	0016	00	30	PH-PW-NAME	Y
PH	314	00	0046	00	02	PH-S-REGN	Y
PH	315	00	0048	00	02	PH-S-DIST	Y
PH	316	00	0050	00	05	PH-LBT-UP	Y
PH	317	00	0055	00	30	PH-OLD-VAL	Y
PH	318	00	0085	00	30	PH-NEW-VAL	Y

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

		RECORD INFORMATION				NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION / FILE		TRANSACTION / FILE		MNEMONIC NAME	HISTORY CODE
PS	399	01	0001	07	07	PS-PWS-ID	N
PS	400	10	0010	04	04	PS-CONTD	N
PS	401	20	0014	03	03	PS-SAMPLID	N
PS	402	37	0017	01	01	PS-SAMPLTP	N
PS	403	31	0018	06	05	PS-SAMPLDT	N
PS	404	38	0023	04	04	PS-SAMPLTM	N
PS	405	17	0027	10	10	PS-SAMPLKY	N
PS	406	00	0037	01	01	PS-RFCDTYP	N
PS	407	14	0049	03	03	PS-AN-METH	N
PS	408	42	0052	05	05	PS-LAR-ID	N
PS	409	17	0058	04	05	PS-D-ANRBL	N
PS	410	21	0063	01	01	PS-D-ANDEC	N
PS	411	22	0064	06	05	PS-D-ANDTE	N
PS	412	23	0069	04	04	PS-B-HIRBL	N
PS	413	27	0073	01	01	PS-B-HIDEC	N
PS	414	28	0074	04	04	PS-B-LORBL	N
PS	415	32	0078	01	01	PS-B-LODEC	N
PS	416	33	0079	04	04	PS-B-MNRBL	N
PS	417	37	0083	01	01	PS-B-MNDEC	N
PS	418	17	0084	03	03	PS-REQ-SPL	N
PS	419	20	0087	03	03	PS-ACT-SPL	N
PS	420	49	0090	06	05	PS-PRD-STR	N
PS	421	55	0095	06	05	PS-PRD-END	N
PS	422	73	0118	01	01	PS-CHK-FED	N
PS	423	74	0119	01	01	PS-CHK-STA	N
PS	424	75	0120	03	03	PS-CHK-NUM	N
PS	425	38	0129	04	04	PS-FED-VIO	N
PS	426	42	0133	04	04	PS-STA-VIO	N
PS	427	46	0137	03	03	PS-VIO-DUR	N
PS	428	78	0140	01	01	PS-NOTIPUB	N
PS	429	79	0141	01	01	PS-NOTISTA	N
PS	817	00	0000	02	02	PS-TRAN-CD	N
PS	818	00	0142	00	01	PS-ERR-IND	N
PS	819	00	0057	00	01	PS-LB-OWN	N
PS	900	61	0017	01	01	PS-SMPLTP	N
PS	901	62	0018	06	05	PS-SMPLDT	N
PS	902	68	0052	05	05	PS-LB-ID	N

MSI8030

DATE 05/11/77

P EL TAT NF N
STANDARD PROCESSING SUBSYS.

DATA ELEMENT TABLE

PAGE 1

RECORD INFORMATION						NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
PW	145	01	0001	07	07	PW-ID	N
PW	146	10	0008	30	30	PW-OWNA	Y
PW	147	40	0038	30	30	PW-PL-STRT	Y
PW	148	10	0068	30	30	PW-PL-CITY	Y
PW	149	40	0098	02	02	PW-PL-STAT	Y
PW	150	42	0100	05	05	PW-PL-ZIP	Y
PW	151	10	0105	30	30	PW-MA-NAME	Y
PW	152	40	0135	30	30	PW-MA-STRT	Y
PW	153	10	0165	30	30	PW-MA-CITY	Y
PW	154	40	0195	02	02	PW-MA-STAT	Y
PW	155	42	0197	05	05	PW-MA-ZIP	Y
PW	156	47	0202	03	03	PW-MA-ARCU	Y
PW	157	50	0205	07	07	PW-MA-PNUM	Y
PW	158	10	0212	15	15	PW-PL-ACTY	N
PW	159	25	0227	03	03	PW-PL-ACNT	N
PW	160	28	0230	03	03	PW-PL-RESR	N
PW	161	31	0233	01	01	PW-PL-RESI	N
PW	162	32	0234	01	01	PW-PL-COMP	N
PW	163	33	0235	01	01	PW-PL-RECR	N
PW	164	34	0236	01	01	PW-PL-MOHO	N
PW	165	35	0237	01	01	PW-PL-INST	N
PW	166	36	0238	01	01	PW-PL-SCHL	N
PW	167	37	0239	01	01	PW-PL-MOTL	N
PW	168	38	0240	01	01	PW-PL-REST	N
PW	169	39	0241	01	01	PW-PL-SSTA	N
PW	170	40	0242	01	01	PW-PL-CAMP	N
PW	171	41	0243	01	01	PW-PL-PIC	N
PW	172	42	0244	01	01	PW-PL-LODG	N
PW	173	43	0245	01	01	PW-PL-MARI	N
PW	174	44	0246	01	01	PW-PL-SKI	N
PW	175	45	0247	01	01	PW-PL-BATH	N
PW	176	46	0248	01	01	PW-PL-VCTR	N
PW	177	47	0249	01	01	PW-PL-HWY	N
PW	178	48	0250	01	01	PW-PL-AIR	N
PW	179	49	0251	01	01	PW-PL-OTHR	N
PW	180	10	0252	07	07	PW-PL-CNUM	Y
PW	181	17	0259	01	01	PW-PL-CARR	Y
PW	182	18	0260	01	01	PW-PL-TYPE	N
PW	183	19	0261	09	09	PW-PL-POPL	Y
PW	184	28	0270	07	07	PW-PL-SNUM	Y
PW	185	35	0277	07	07	PW-PL-MNUM	Y
PW	186	10	0284	10	10	PW-PL-AVPR	Y
PW	187	20	0294	10	10	PW-PL-DECA	N
PW	188	30	0304	10	10	PW-PL-EMER	Y
PW	189	40	0314	10	10	PW-PL-STCA	Y

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

	RECORD INFORMATION					NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
PW	190	50	0324	10	10	PW-PL-MAXP	Y
PW	191	10	0334	04	04	PW-PL-REGN	Y
PW	192	14	0338	06	05	PW-PL-SURV	Y
PW	193	20	0343	02	02	PW-PL-CYCL	N
PW	194	22	0345	01	01	PW-PL-ACTV	N
PW	195	23	0346	06	05	PW-PL-DDAT	N
PW	196	29	0351	01	01	PW-PL-DREA	N
PW	197	30	0352	12	12	PW-PL-MANU	N
PW	198	10	0364	02	02	PW-S-CODE	Y
PW	199	12	0366	01	01	PW-S-REGE	N
PW	200	13	0367	02	02	PW-S-REGN	N
PW	201	15	0369	02	02	PW-S-DIST	N
PW	202	17	0371	01	01	PW-S-BFLG	Y
PW	203	18	0372	01	01	PW-S-MONT	N
PW	204	19	0373	03	03	PW-S-NSAM	N
PW	205	22	0376	04	04	PW-S-SRGN	N
PW	206	26	0380	04	04	PW-S-SEND	N
PW	207	30	0384	01	01	PW-S-MOCK	N
PW	208	31	0385	03	03	PW-S-NSPFG	N
PW	209	34	0388	01	01	PW-S-HCKS	N
PW	210	35	0389	02	02	PW-S-CLOR	N
PW	211	37	0391	01	01	PW-S-TFLG	Y
PW	212	38	0392	02	02	PW-S-TBUN	N
PW	213	11	****	04	04	PW-S-CONID	Y
PW	214	15	****	03	03	PW-S-SPFG	Y
PW	215	10	0422	04	04	PW-S-ORBGN	N
PW	216	14	0426	04	04	PW-S-OREND	N
PW	217	19	0430	03	03	PW-S-ATEM	N
PW	218	22	0433	04	04	PW-S-NITR	N
PW	219	26	0437	01	01	PW-S-RFLG	Y
PW	220	27	0438	01	01	PW-S-RHON	N
PW	221	28	0439	02	02	PW-S-BETA	N
PW	222	30	0441	01	01	PW-S-NUCL	N
PW	223	31	0442	01	01	PW-S-FATY1	N
PW	224	12	****	04	04	PW-S-FACON	N
PW	225	16	****	02	02	PW-S-CFREQ	N
PW	226	10	0504	02	02	PW-S-GALP	N
PW	227	12	0506	02	02	PW-S-RADM	N
PW	228	14	0508	01	01	PW-S-NUMSP	N
PW	229	18	0509	01	01	PW-S-GWATR	N
PW	230	15	0510	01	01	PW-S-RREQ	N
PW	231	16	0511	04	04	PW-S-LAST	Y
PW	232	20	0515	01	01	PW-S-ENGM	N
PW	233	00	0516	00	17	PW-S-REBV	N
PW	234	00	0616	00	05	PW-LST-UP	N

MSIS039

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

RECORD INFORMATION						NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
PW	235	11	****	05	05	PW-LA-ID	N
PW	236	16	****	01	01	PW-LA-CFLG	Y
PW	237	47	0651	01	01	PW-OW-TYPE	Y
PW	238	11	****	08	08	PW-VE-CTAM	N
PW	239	15	****	05	05	PW-VE-MCL	N
PW	240	20	****	01	01	PW-VE-DEC	N
PW	241	21	****	03	03	PW-VE-AMF	N
PW	242	00	0705	00	02	PW-PL-SOMM	N
PW	243	12	****	15	15	PW-PL-SONA	Y
PW	244	27	****	01	01	PW-PL-SOCO	Y
PW	245	28	****	02	02	PW-PL-WELL	Y
PW	246	30	****	01	01	PW-PL-AVAL	Y
PW	247	31	****	04	04	PW-PL-BASN	Y
PW	248	35	****	07	07	PW-PL-LATI	Y
PW	249	42	****	07	07	PW-PL-LONG	Y
PW	250	49	****	07	07	PW-PL-BLID	Y
PW	251	56	****	01	01	PW-PL-ALRA	Y
PW	252	57	****	01	01	PW-PL-PREC	Y
PW	253	58	****	01	01	PW-PL-CUAG	Y
PW	254	59	****	01	01	PW-PL-SEDI	Y
PW	255	60	****	01	01	PW-PL-FILT	Y
PW	256	61	****	01	01	PW-PL-CORR	Y
PW	257	62	****	01	01	PW-PL-SOFT	Y
PW	258	63	****	01	01	PW-PL-TAST	Y
PW	259	64	****	01	01	PW-PL-IRON	Y
PW	260	65	****	01	01	PW-PL-AMMO	Y
PW	261	66	****	01	01	PW-PL-FLOR	Y
PW	262	67	****	01	01	PW-PL-DISI	Y
PW	263	68	****	01	01	PW-PL-OTHE	Y
PW	264	00	****	00	03	PW-PL-RESE	Y
PW	701	42	0704	01	01	PW-PL-COIN	N
PW	702	32	0843	01	01	PW-S-FATY2	N
PW	906	08	****	02	02	PW-TRAN-CD	N
PW	910	10	****	01	01	PW-CRDT-CD	N
PW	912	10	****	01	01	PW-OCCUR1	N
PW	913	10	****	02	02	PW-OCCUR2	N

MSIS030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

		RECORD INFORMATION				NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
RG	001	01	0001	04	04	RG-CONID	N
RG	002	05	0005	02	02	RG-A-RGLVL	N
RG	003	07	0007	11	15	RG-A-CONAM	N
RG	004	18	0022	06	05	RG-A-EFFDT	N
RG	005	24	0027	03	03	RG-A-M-GRA	N
RG	006	27	0030	03	03	RG-A-M-CHR	N
RG	007	30	0033	03	03	RG-A-GAORB	N
RG	008	33	0036	03	03	RG-A-GAIRB	N
RG	009	36	0039	03	03	RG-A-R6FRB	N
RG	010	39	0042	03	03	RG-A-R6ANM	N
RG	011	42	0045	01	01	RG-A-NUMBP	N
RG	012	43	0046	01	01	RG-A-MINFQ	N
RG	013	44	0047	02	02	RG-A-INIPD	N
RG	014	46	0049	02	02	RG-A-FRACT	N
RG	015	48	0051	02	02	RG-A-MINVF	N
RG	016	50	0053	01	01	RG-A-AC4BP	N
RG	017	51	0054	01	01	RG-A-CNCOB	N
RG	019	05	0005	02	02	RG-B-RGLVL	N
RG	020	07	0007	10	15	RG-B-CONAM	N
RG	021	17	0022	06	05	RG-B-EFFDT	N
RG	022	23	0027	02	02	RG-B-ANMCL	N
RG	023	25	0029	05	05	RG-B-TRISC	N
RG	024	30	0034	03	03	RG-B-BTRSC	N
RG	025	33	0037	03	03	RG-B-MBENN	N
RG	026	36	0040	03	03	RG-B-MBECN	N
RG	027	39	0043	03	03	RG-B-SRCIC	N
RG	028	42	0046	01	01	RG-B-CNCOB	N
RG	029	43	0047	01	01	RG-B-MONGD	N
RG	030	44	0048	01	01	RG-B-AVCOM	N
RG	031	45	0049	06	06	RG-B-MNPOP	N
RG	032	51	0055	01	01	RG-B-NNMBP	N
RG	033	52	0056	01	01	RG-B-NNMFQ	N
RG	034	53	0057	02	02	RG-B-NVMFQ	N
RG	035	55	0059	02	02	RG-B-CNIOS	N
RG	036	57	0061	02	02	RG-B-CNSTS	N
RG	037	59	0063	02	02	RG-B-CIOMF	N
RG	038	61	0065	02	02	RG-B-CSTMF	N
RG	039	63	0067	02	02	RG-B-CVMFQ	N
RG	040	65	0069	02	02	RG-B-CIOBP	N
RG	042	05	0005	02	02	RG-C-RGLVL	N
RG	043	07	0007	11	15	RG-C-CONAM	N
RG	044	18	0022	01	01	RG-C-RSNCD	N
RG	045	19	0023	06	06	RG-C-MCLUN	N
RG	046	25	0029	06	06	RG-C-MCL	N
RG	047	31	0035	01	01	RG-C-MCLDC	N

RECORD INFORMATION						NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
RG	048	32	0036	05	05	RG-C-MCLOW	N
RG	049	37	0041	01	01	RG-C-MCLOD	N
RG	050	38	0042	05	05	RG-C-MCLHI	N
RG	051	43	0047	01	01	RG-C-MCLHD	N
RG	052	44	0048	01	01	RG-C-CKSAM	N
RG	053	45	0049	01	01	RG-C-BEACD	N
RG	054	46	0050	01	01	RG-C-BPECD	N
RG	055	47	0051	02	02	RG-C-MTHTM	N
RG	056	49	0053	02	02	RG-C-CMAPD	N
RG	057	51	0055	04	05	RG-C-CFFDT	N
RG	058	57	0060	01	01	RG-C-CGRYR	N
RG	059	58	0061	04	04	RG-C-CGSPF	N
RG	060	62	0065	04	04	RG-C-CGVFQ	N
RG	061	66	0069	02	02	RG-C-CGMNG	N
RG	062	68	0071	01	01	RG-C-CSRYR	N
RG	063	69	0072	04	04	RG-C-CSSPF	N
RG	064	73	0076	04	04	RG-C-CSVFQ	N
RG	065	77	0080	02	02	RG-C-CSMNG	N
RG	066	51	0082	04	05	RG-C-NEFDT	N
RG	067	57	0087	01	01	RG-C-NGRYR	N
RG	068	58	0088	04	04	RG-C-NGSPF	N
RG	069	62	0092	04	04	RG-C-NGVFQ	N
RG	070	66	0096	02	02	RG-C-NGMNG	N
RG	071	68	0098	01	01	RG-C-NSRYR	N
RG	072	69	0099	04	04	RG-C-NSSPF	N
RG	073	73	0103	04	04	RG-C-NSVFQ	N
RG	074	77	0107	02	02	RG-C-NSMNG	N
RG	076	05	0005	02	02	RG-E-RGLVL	N
RG	077	07	0007	01	01	RG-E-TRLID	N
RG	078	08	0008	04	05	RG-E-EFFDT	N
RG	079	14	0013	15	15	RG-E-CONAM	N
RG	080	29	0028	04	04	RG-E-ANCON	N
RG	081	35	0034	04	04	RG-E-DETLM	N
RG	082	39	0038	05	01	RG-E-NPPCD	N
RG	084	05	0005	02	02	RG-F-RGLVL	N
RG	085	07	0007	01	01	RG-F-TRLID	N
RG	086	08	0008	03	03	RG-F-TRFLO	N
RG	087	11	0011	03	03	RG-F-TRFHI	N
RG	088	14	0014	03	03	RG-F-TRCLO	N
RG	089	17	0017	03	03	RG-F-TRCHI	N
RG	090	20	0020	04	04	RG-F-TRMCL	N
RG	091	24	0024	03	03	RG-F-RRFLO	N
RG	092	29	0029	03	03	RG-F-RRFHI	N
RG	093	32	0032	03	03	RG-F-RRCLO	N
RG	094	35	0035	03	03	RG-F-RRCHI	N

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

FILE ID	CATALOGUE NO	RECORD INFORMATION START POSITION TRANSACTION	/ FILE	FIELD LENGTH TRANSACTION	/ FILE	NAME INFORMATION MNEMONIC NAME	HISTORY CODE
RG	096	05	0005	02	02	RG-M-RGLVL	N
RG	097	07	0007	0A	15	RG-M-CONAM	N
RG	098	15	0022	06	05	RG-M-EFFDT	N
RG	099	21	0027	02	02	RG-M-MF-BM	N
RG	100	23	0029	02	02	RG-M-MF-MT	N
RG	101	25	0031	02	02	RG-M-MF-PB	N
RG	102	27	0033	02	02	RG-M-MF-MR	N
RG	103	29	0035	02	02	RG-M-MF-MC	N
RG	104	31	0037	02	02	RG-M-FT-BM	N
RG	105	33	0039	02	02	RG-M-FT-MT	N
RG	106	35	0041	02	02	RG-M-FT-PB	N
RG	107	37	0043	02	02	RG-M-FT-MR	N
RG	108	39	0045	02	02	RG-M-FT-MC	N
RG	109	41	0047	02	02	RG-M-FH-BM	N
RG	110	43	0049	02	02	RG-M-FH-MT	N
RG	111	45	0051	02	02	RG-M-FH-PB	N
RG	112	47	0053	02	02	RG-M-FH-MR	N
RG	113	49	0055	02	02	RG-M-FH-MC	N
RG	114	51	0057	01	01	RG-M-RGMAX	N
RG	115	52	0058	01	01	RG-M-RGSPD	N
RG	116	53	0059	01	01	RG-M-CKCDB	N
RG	117	54	0060	01	01	RG-M-CKMNP	N
RG	118	55	0061	02	02	RG-M-CKMCB	N
RG	119	57	0063	02	02	RG-M-C-LEU	N
RG	120	59	0065	02	02	RG-M-C-MXP	N
RG	121	61	0067	02	02	RG-M-C-MCL	N
RG	122	63	0069	02	02	RG-M-C-MXT	N
RG	123	65	0071	06	05	RG-M-NEFDT	N
RG	124	71	0076	01	01	RG-M-NSEAB	N
RG	125	72	0077	01	01	RG-M-NPERD	N
RG	126	73	0078	02	02	RG-M-NSPFB	N
RG	128	05	0005	02	02	RG-P-RGLVL	N
RG	129	07	0007	01	01	RG-P-TALID	N
RG	130	08	0008	09	09	RG-P-T-FRM	N
RG	131	17	0017	09	09	RG-P-T-TOP	N
RG	132	26	0026	03	03	RG-P-T-FRQ	N
RG	134	05	0005	02	02	RG-T-RGLVL	N
RG	135	07	0007	09	15	RG-T-CONAM	N
RG	136	16	0022	02	02	RG-T-MNMCL	N
RG	137	18	0024	02	02	RG-T-CKMCL	N
RG	138	20	0026	02	02	RG-T-CNSPL	N
RG	139	22	0028	06	05	RG-T-EFFDT	N
RG	140	28	0033	01	01	RG-T-ALLSR	N
RG	141	29	0034	01	01	RG-T-RPTIN	N
RG	142	30	0035	03	03	RG-T-CSPFQ	N

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

RECORD INFORMATION						NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
RG	143	33	0030	01	03	RG-T-NSPFG	N
RG	144	36	0041	02	02	RG-T-NRSPL	N
RG	914	79	****	02	02	TRAN-CODE	N

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

FILE ID	CATALOGUE NO	RECORD INFORMATION START POSITION TRANSACTION	START POSITION FILE	FIELD LENGTH TRANSACTION	FIELD LENGTH FILE	NAME INFORMATION MNEMONIC NAME	HISTORY CODE
SA	356	01	0001	07	07	SA-PWB-ID	N
SA	357	10	0010	04	04	SA-CONID	N
SA	358	00	0014	03	03	SA-SAMPLID	N
SA	359	00	0017	00	01	SA-SAMPLTP	N
SA	360	00	0018	00	05	SA-SAMPLDT	N
SA	361	00	0023	00	04	SA-SAMPLTM	N
SA	362	17	0027	10	10	SA-SAMPLKY	N
SA	363	00	0037	00	01	SA-RECDTYP	N
SA	364	00	0038	01	01	SA-PWB-TYP	N
SA	365	00	0039	00	09	SA-POP-SRV	N
SA	366	00	0048	00	01	SA-SOURCE	N
SA	367	10	0049	03	03	SA-AN-METH	N
SA	368	00	0052	00	05	SA-LAB-ID	N
SA	369	00	0057	00	01	SA-LAB-OWN	N
SA	370	00	0058	00	05	SA-D-ANRSL	N
SA	371	00	0063	00	01	SA-D-ANDEC	N
SA	372	00	0064	00	05	SA-D-ANDTE	N
SA	373	00	0069	00	04	SA-S-HIRSL	N
SA	374	00	0073	00	01	SA-S-HIDEC	N
SA	375	00	0074	00	04	SA-S-LORSL	N
SA	376	00	0078	00	01	SA-S-LODEC	N
SA	377	00	0079	00	04	SA-S-MNRSL	N
SA	378	00	0083	00	01	SA-S-MNDEC	N
SA	379	00	0084	00	03	SA-REQ-SPL	N
SA	380	00	0087	00	03	SA-ACT-SPL	N
SA	381	00	0090	00	05	SA-PRD-STR	N
SA	382	00	0095	00	05	SA-PRD-END	N
SA	383	00	0100	00	05	SA-REGLRSPL	N
SA	384	00	0105	00	05	SA-SAMPLCT	N
SA	385	00	0110	00	05	SA-SAMPLDU	N
SA	386	00	0115	00	03	SA-AIR-TMP	N
SA	387	00	0118	00	01	SA-CHK-FED	N
SA	388	00	0119	00	01	SA-CHK-STA	N
SA	389	00	0120	00	03	SA-CHK-NUM	N
SA	390	00	0123	00	05	SA-VAR-MCL	N
SA	391	00	0128	00	01	SA-VAR-DEC	N
SA	392	00	0129	00	04	SA-FED-VIO	N
SA	393	00	0133	00	04	SA-STA-VIO	N
SA	394	00	0137	00	03	SA-VIO-DUR	N
SA	395	00	0140	00	01	SA-NOTIPUB	N
SA	396	00	0141	00	01	SA-NOTTSTA	N
SA	397	00	0193	00	01	SA-MCLVIFL	N
SA	398	00	0194	00	05	SA-MCLVFVL	N
SA	807	00	0144	00	02	SA-REGION	N
SA	808	00	0146	00	02	SA-DISTRIC	N

MSIS030

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

PAGE 2

		RECORD INFORMATION				NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION	/ FILE	TRANSACTION	/ FILE	MNEMONIC NAME	HISTORY CODE
SA	809	00	0199	00	01	SA-MCLVFDC	N
SA	810	00	0200	00	05	SA-MCLVSVL	N
SA	811	00	0205	00	01	SA-MCLVSDC	N
SA	812	00	0206	00	05	SA-MCLVSSD	N
SA	813	00	0211	00	01	SA-FL-FUFC	N
SA	814	00	0212	00	01	SA-FL-SUFC	N
SA	815	00	0213	00	01	SA-F-SSC	N
SA	816	00	0214	00	01	SA-S-SSC	N
SA	917	00	****	02	02	SA-TRAN-CD	N

MSI8030

DATE 09/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

		RECORD INFORMATION				NAME INFORMATION	
		START POSITION		FIELD LENGTH			
FILE ID	CATALOGUE NO	TRANSACTION / FILE		TRANSACTION / FILE		MNEMONIC NAME	HISTORY CODE
SH	301	00	0001	00	02	SH-FILE-ID	N
SH	302	00	0003	00	05	SH-REC-ID	N
SH	303	00	0008	00	03	SH-CAT-NO	N
SH	304	00	0011	00	05	SH-CUR-UP	N
SH	305	00	0016	00	05	SH-LST-UP	N
SH	306	00	0021	00	30	SH-OLD-VAL	N
SH	307	00	0051	00	30	SH-NEW-VAL	N

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

FILE ID	CATALOGUE NO	RECORD INFORMATION START POSITION TRANSACTION	START POSITION FILE	FIELD LENGTH TRANSACTION	FIELD LENGTH FILE	NAME INFORMATION MNEMONIC NAME	HISTORY CODE
VE	455	01	0001	05	05	VE-ID	Y
VE	456	16	0006	05	05	VE-ID-REF	Y
VE	457	08	0011	07	07	VE-PHS-ID	Y
VE	458	15	0018	01	01	VE-TYPE	Y
VE	459	21	0019	06	05	VE-EFF-DT	Y
VE	460	27	0024	06	05	VE-EXP-DT	Y
VE	461	35	0029	01	01	VE-STATUS	Y
VE	462	36	0030	04	04	VE-CON-ID	Y
VE	463	40	0034	05	05	VE-MOD-MCL	Y
VE	464	45	0039	01	01	VE-MOD-DEC	Y
VE	465	46	0040	03	03	VE-TREAT	Y
VE	466	49	0043	03	03	VE-ALT-TRT	Y
VE	467	52	0046	03	03	VE-MOD-FRE	Y
VE	468	06	****	30	30	VE-ABSTRAC	Y
VE	469	33	0529	02	02	VE-REASON	Y
VE	470	00	0531	00	05	VE-LST-UP	Y
VE	471	00	0536	00	02	VE-HISTONE	Y
VE	472	16	****	02	02	VE-REPEAT	Y
VE	473	08	****	06	05	VE-TAR-DT	Y
VE	474	16	****	06	05	VE-ATT-DT	Y
VE	475	14	****	02	02	VE-MIL-COD	Y
VE	476	22	****	01	01	VE-DEL-CD	Y
VE	477	16	****	30	30	VE-MIL-ABB	Y
VE	485	06	****	02	02	VE-TRAN-CD	N
VE	489	08	****	01	01	VE-CRDT-CD	N

MSI8050

DATE 05/11/77

MODEL STATE INFORMATION SYSTEM
STANDARD PROCESSING SUBSYSTEM

DATA ELEMENT TABLE

FILE ID	CATALOGUE NO	RECORD INFORMATION START POSITION TRANSACTION	START POSITION FILE	FIELD LENGTH TRANSACTION	FIELD LENGTH FILE	NAME INFORMATION MNEMONIC NAME	HISTORY CODE
VI	326	00	0001	07	07	VI-PWS-ID	Y
VI	327	00	0008	00	30	VI-PWS-NAM	Y
VI	328	00	0038	00	01	VI-PWS-TYP	Y
VI	329	00	0039	00	09	VI-POPULAT	Y
VI	330	15	0048	02	02	VI-REG-LVL	Y
VI	331	17	0050	06	06	VI-CONT-ID	Y
VI	332	00	0056	00	01	VI-BRC-CD	Y
VI	333	21	0055	05	05	VI-LAB-ID	Y
VI	334	00	0060	00	30	VI-LAB-NAM	Y
VI	335	26	0090	06	05	VI-BPLDATE	Y
VI	336	32	0095	04	04	VI-BPLREQD	Y
VI	337	36	0099	04	04	VI-BPLTAKN	Y
VI	338	40	0103	03	03	VI-AN-METH	Y
VI	339	43	0106	05	05	VI-AN-REBL	Y
VI	340	48	0111	01	01	VI-AN-DEC	Y
VI	341	49	0112	06	05	VI-ANDATE	Y
VI	342	55	0117	06	05	VI-SAMPLCT	Y
VI	343	00	0122	02	02	VI-VIOL-TP	Y
VI	344	10	0124	06	05	VI-VIOL-DT	Y
VI	345	16	0129	05	05	VI-MCLVIOL	Y
VI	346	21	0134	01	01	VI-MCLDEC	Y
VI	347	22	0135	03	03	VI-BPLVIOL	Y
VI	348	25	0138	04	04	VI-NUMBPVI	Y
VI	349	29	0142	02	02	VI-VIOLDUR	Y
VI	350	31	0144	01	01	VI-NOTIFUB	Y
VI	351	32	0145	01	01	VI-NOTIFSTA	Y
VI	352	00	0146	00	02	VI-REGION	Y
VI	353	00	0148	00	02	VI-DISTRIC	Y
VI	354	33	0150	01	01	VI-BPLTYPE	Y
VI	355	34	0151	10	10	VI-BPLKEY	Y
VI	800	44	0161	06	05	VI-DT-RPT	Y
VI	801	50	0166	02	02	VI-LST-RPT	Y
VI	802	00	0168	00	01	VI-LAB-UNK	Y
VI	803	01	0169	05	05	VI-VIOL-ID	Y
VI	804	06	0174	00	05	VI-LSTUPDT	Y
VI	805	52	0179	25	25	VI-REMARKS	Y
VI	806	00	9204	00	05	VI-MCLVBSD	Y
VI	915	06	****	02	02	VI-TRAN-CD	N
VI	916	08	****	01	01	VI-CRDT-CD	N

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